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MANEUVER FLIGHT LOADS DATA FROM RF-101C AIRCRAFT

TECHNICAL DOCUMENTARY REPORT ASD-TDR-62-923

January 1963

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Structures and Air Environment Division
Aeronautical Systems Division
Air Force Systems Command
Wright-Patterson Air Force Base, Ohio

Weapon System 217A

(Prepared under Contract No. AF 33(616)-7593 by Technology Incorporated, Dayton, Ohio Author: Dudley C. Ward, Jr.)

NO 013

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| fense & Transport Systems Division, Dir. / Defense & Transport Systems Engineering. Structures & Air Environment Division, Wright-Patterson AFB, Ohio Rpt Nr ASD-TDR-62-923, MANEUVER FLIGHT LOADS DATA FROM RF-101C AIRCRAFT, Final Report, Jun 63, 32 P. incl illus., tables, 1 ref. Unclassified Report Structural flight loads data from RF-101C aircraft assigned to normal squadron operation with the United States Air Force in Europe are presented in this report. The basic in-flight maneuver data include normal | acceleration at the center of gravity, airspeed, and altitude. The information deriver from these parameters is intended for use in estimating the fatigue and service life effects of the maneuver environment upon the RF-101C aircraft structure. |

FOREWORD

This report was prepared for the Structures and Air Environment Division, Directorate of Defense and Transport Systems Engineering, Deputy for Systems Engineering, Aeronautical Systems Division, Wright-Patterson Air Force Base, Ohio, as a portion of Contract AF 33(616)-7593. The program leading to this report was conducted by Technology Incorporated under the direction of Messrs. James R. Braun, George R. Boone, and Kenneth L. Rickey. The Aeronautical Systems Division project monitors were Lt. Ned Sandlin and Mr. Richard W. Bachman of the Structures and Air Environment Division.

This report is based on data collected on RF-101C aircraft based at Laon and Toul-Rosiers Air Force bases, France. The data were collected from 1 April 1961 to 1 November 1961.

ABSTRACT

Structural flight roads data from RF-101C aircraft assigned to normal squadron operation with the United States Air Force in Europe are presented in this report. The basic in-flight maneuver data include normal acceleration at the center of gravity, airspeed, and altitude. The information derived from these parameters is intended for use in estimating the fatigue and service life effects of the maneuver environment upon the RF-101C aircraft structure.

PUBLICATION REVIEW

This report has been reviewed and is approved.

FOR THE COMMANDER

WILLIAM B. MILLER
Chief, Structures and Air
Environment Division

ASD-TDR-62-923

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SECTION I

INTRODUCTION

This report presents a study of the maneuver loads data gathered on RF-101C aircraft assigned to normal operational duty with the 18th and 38th Tactical Reconnaissance squadrons of the United States Air Force in Europe. These squadrons were based, respectively, at Laon Air Force Base and Toul-Rosiers Air Force Base, France. The maneuver loads data, recorded by the Model F Willys Flight Loads Recorder, include three in-flight parameters: normal acceleration at the center of gravity, airspeed, and altitude; these are commonly denoted as "VGH."

The RF-101C maneuver loads program was initiated by the Aeronautical Systems Division as a supplemental part of the F-101 fatigue certification program under Weapon System 217A. Technology Incorporated received the award of the supplemental agreement to Contract AF 33(616)-7593 on 1 March 1961 and commenced installation of the Willys recorder on that date. Installation was completed on 17 May 1961. The first maneuver data was recorded on 30 March 1961; the last, on 16 October 1961. The Aeronautical Systems Division provided technical guidance and supervision for the recording program.

A. Data Recording System

The Model F Willys Recorder is a direct-write instrument which employs fixed styli to transcribe the parameter deflections onto carbon impregnated paper when electrical impulses are fed to them from the transducers. Each stylus, identified by a number, was fixed to represent a specific band within a parameter range. The contractor, utilizing the facilities of the Aeronautical Systems Division, established the coverage of these bands during the calibration process.

The Willys recorder has two inherent deficiencies which decrease the data accuracy and limit the recorder response to the lower frequency inputs. The recorder is insensitive to any input frequencies in excess of one cycle per second; in fact, a frequency of one-half cycle per second is borderline. Consequently, data recorded during turbulent flight conditions do not include all the added loading caused by the gust inputs; hence, loads spectra based on such recordings will be unconservative to some degree. Since the Willys recorder is essentially a digital recorder, resolution of the recorder only approaches some of the established divisions (data blocks) of the parameter ranges; in some instruments, the bands of the acceleration magnitude represented by the styli slightly exceed the bands of the corresponding data blocks. Therefore, as the values represented by one stylus could cover a range including the band of one data block and parts of the bands of the adjacent two data blocks, an acceleration depicted by a stylus could be of a magnitude equal to that represented by any one of the three data blocks. Such an acceleration, however, would be recorded as a value in the lowest of these blocks. Obviously, such data would cause the load factor spectrum to be unconservative to some degree.

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B. Data Processing

To facilitate analysis of the recorded data, the flight profile of the RF-101C aircraft was divided into five major missions:

| Mission I | Photo High |
|-------------|---------------------------|
| Mission II | Photo Low |
| Mission III | Photo High - Low - High |
| Mission IV | Transition and Test Hops |
| Mission V | Navigation and Instrument |

Mission I includes mainly the data of Photo Reconnaissance Missions during which vertical pinpoint and vertical strip photographs were taken. Most of the data of Mission I were acquired between the altitudes of 25,000 to 40,000 feet. Mission II comprises the data of Photo and Visual Reconnaissance Missions. Four types of photography were employed during Mission II: side oblique, forward oblique, vertical pinpoint, and vertical strip photographs. Most of the data obtained during Mission II were recorded below 2,000 feet. Mission III is a combination of Missions I and II. Mission IV consists of data essentially-from transition and test flights, including chase, tactical evaluation, and standardization board flights. Mission V contains data of instrument and navigation flights, including day formation, night flying (singly or in formation), maximum range without radio, navigation proficiency, TACAN, and GCA flights.

The semiautomatic Benson-Lehner oscillograph reader was used to measure the analog VGH data and to transcribe it in digital form onto IBM cards. The associated times for the subsequent compilation of the periods spent within specific airspeed and altitude ranges were also noted. Personnel in the computer facilities of the Aeronautical Systems Division prepared the data for processing through the IBM 7090 computer by using the IBM 1401 converter to transcribe the information from the punched cards to tape. A computer program in FORTRAN language governed the calculations and sorting operations for the grouping of data according to the required combinations of type of mission and ranges of gross weight, equivalent airspeed, altitude, and normal acceleration. The IBM 1403 generated the data printout tabulations from the output tape of the IBM 7090.

The criteria for reading the acceleration trace on the Willys records required a positive peak to be equal to or more than 2.0 g and a negative peak to be equal to or less than 0 g. When two or more peaks beyond these limiting levels appeared during the period defined by departure from and return to the 1.0-g level, the following points were read: the maximum peak and every other peak whose adjacent troughs were vertically removed from it by two or more styli (the vertical displacement between any two styli is approximately 0.8 g).

SECTION II

DISCUSSION

The normal accelerations which occurred during 2025.4 in-flight hours are presented in the form of normal load factors as functions of Mach number in Figure 1. This figure shows a point at 7.5 g which exceeds the 7.33-g structural limit. Inspection of the original recording revealed a load factor level between 7.2 and 7.6 g, the exact value being undetermined since the styli, as mentioned above, represent values within increments rather than a precise measurement. The instantaneous gross weight for the instant of this acceleration occurrence was determined to be 31,741 pounds which yields an n_W, of 241, 232 pounds (based on a load factor of 7.6 g). Design gross weight for this aircraft is 37,000 pounds, and the allowable load for the design limit load factor is 271,000 pounds. Therefore, the structural limit was not exceeded, even though the design limit load factor level was surpassed (Figure 1). Also of interest in Figure 1 are the apparent load factor exceedances at the lower Mach numbers; however, it must be noted that the V-n diagram in this figure is based on sea level and basic flight design gross-weight conditions, whereas the plots emanated from accelerations which occurred with various combinations of altitude and gross weight, each parameter varying within its range of values.

Figures 2 through 6 present the percentages of total mission flight time spent in various altitude ranges for each mission. The considerable percentage of time spent below 2,000 feet is particularly significant. The findings from other similar programs have revealed that the gust environment below 2,000 feet contributes markedly to the over-all fatigue spectrum of most aircraft. Since the effect of the gust environment becomes more severe as the airspeed increases, the large percentages of time spent at relatively high airspeeds, indicated in Figures 8 through 12, add to the significance of the low-altitude flight dominance. Table 1, based on the data of all missions, shows the actual flight times spent at these low altitudes and high velocities. The percentages of total flight time, including the times of all missions, spent in various altitude and airspeed intervals are displayed in Figures 7 and 13, respectively.

The percentages of total mission flight time spent in various gross weight ranges for each mission are presented in Figures 14 through 18. Figure 19 is a composite of the data in these five figures. For the purpose of comparing various distributions of the total flight (composite of all missions) time, Figure 20 is a composite including five figures which depict the following: percentages of flight time spent in selected altitude, airspeed, and gross weight ranges (Figures 7, 13, and 19), percentages of flight time spent in the five mission types, and the average flight time per mission type.

Figures 21 through 25 present the maneuver load factor environment for each of the five missions. Mission IV is apparently the most severe, whereas Mission I is the least severe.

The RF-101C maneuver load factor spectrum, based upon the 2025.4 hours of flight data, is presented in Figure 26. The figure indicates that an RF-101C aircraft will probably reach its design limit normal load factor approximately every 2500 hours. However, as the stability of the curve is rather questionable above the 4.5- to 5.0-g range, predictions beyond this range should be considered discreetly. Of more interest, perhaps, is the number of flight hours to equal or exceed the design limit load (see Figure 27). The data indicate that the higher load factors occurred at relatively low gross weights. Such occurrences would explain the apparent trend of the curve which indicates that a large number of flight hours would be required to encounter the design limit load. This hypothesis should be tempered somewhat, for the few occurrences recorded at the higher percentages do not allow a sufficient degree of confidence to be placed in the curve above 60 to 70% of the design limit load. Curves derived from F-101C maneuver loads data (Reference 2) are also included in Figures 26 and 27 for comparison purposes since the F-101C and RF-101C aircraft are basically the same aerodynamically and structurally. As the data collected on the F-101C aircraft totaled only 1302 flight hours, the F-101C curves probably did not reach the degree of stability attained by the RF-101C curves; therefore, no strong conclusions should be drawn between the two sets of data.

The distribution of equivalent maneuver load factors as a function of Mach number for all missions is shown in Table 2. Table 3 presents the distribution of maneuver load factors by equivalent airspeed for all missions, and Tables 4 through 8 show the individual mission breakdown. These data are also presented for various altitude and gross weight ranges in Tables 9 through 23.

SECTION III

CONCLUSIONS

- 1. All maneuver loads measured on the RF-101C aircraft are within the design limit load.
- 2. Since 43.9% of the total recorded flight time (all missions) was spent below 2,000 feet, the aircraft encountered a considerable number of gust loads. However, as the Willys recorder is insensitive to the effects of turbulence, a fatigue spectrum based on such recorded data would be unconservative.
- 3. Additional flight loads data on the RF-101C aircraft, especially gust data, should be acquired to obtain a more rigorous fatigue load spectrum.

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- Braun, Joseph F., Flight Loads Instrumentation for the RF-101C, F-101A, and F-101C Aircraft, Technology Incorporated Report Number 7593-IR-002, January 1962.
- 2. Ward, Dudley C., Jr., and Berens, Alan P., Structural Flight Loads

 Data from F-101A and F-101C Aircraft, ASD Technical Documentary

 Report 62-912, Volume II, Aeronautical Systems Division, Wright
 Patterson Air Force Base, Ohio, October 1962.

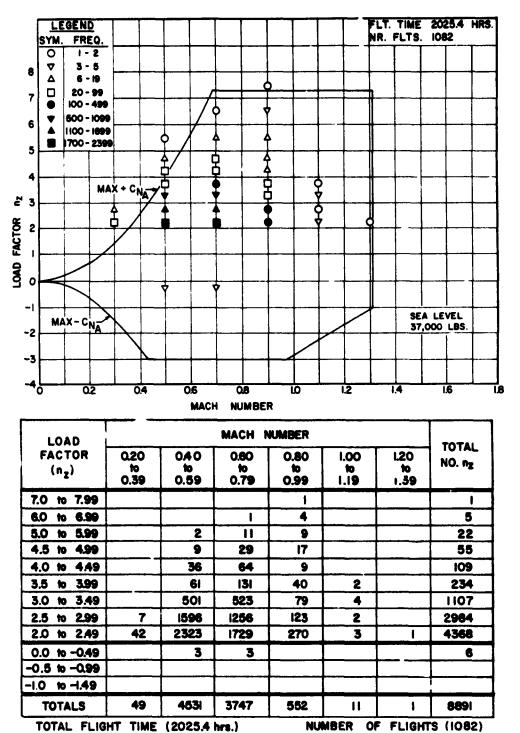


Figure 1
Diagram and Tabulation of Mach Number Versus Load Factor

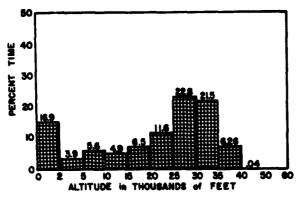


Figure 2
Percentages of Total Flight (Mission I)
Time Spent in Selected Altitude Ranges

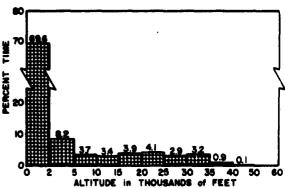


Figure 3
Percentages of Total Flight (Mission II)
Time Spent in Selected Altitude Ranges

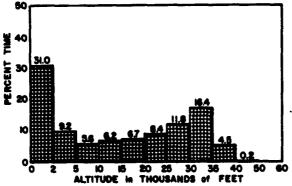


Figure 4
Percentages of Total Flight (Mission III)
Time Spent in Selected Altitude Ranges

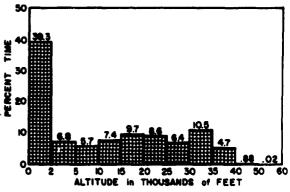


Figure 5
Percentages of Total Flight (Mission IV)
Time Spent in Selected Altitude Ranges

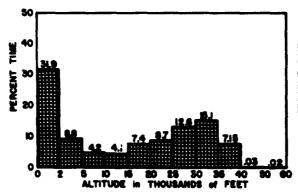


Figure 6
Percentages of Total Flight (Mission V)
Time Spent in Selected Altitude Ranges

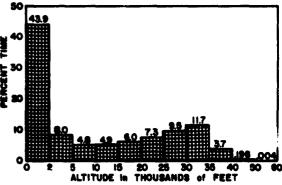
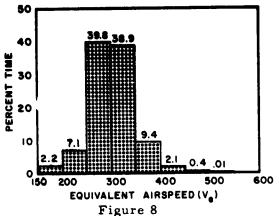


Figure 7
Percentages of Total Flight (Composite of All Missions) Time Spent in Selected Altitude Ranges



Percentages of Total Flight (Mission I) Time Spent in Selected Airspeed Ranges

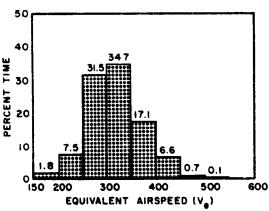
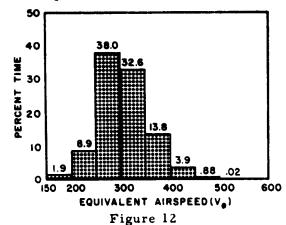
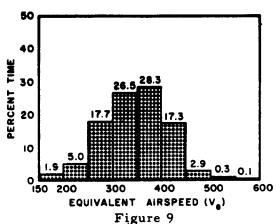


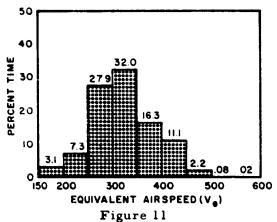
Figure 10
Percentages of Total Flight (Mission III)
Time Spent in Selected Airspeed Ranges



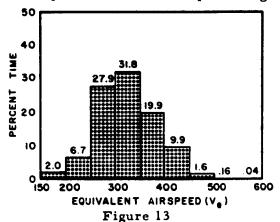
Percentages of Total Flight (Mission V)
Time Spent in Selected Airspeed Ranges



Percentages of Total Flight (Mission II)
Time Spent in Selected Airspeed Ranges



Percentages of Total Flight (Mission IV)
Time Spent in Selected Airspeed Ranges



Percentages of Total Flight (Composite of All Missions) Time Spent in Selected Airspeed Ranges

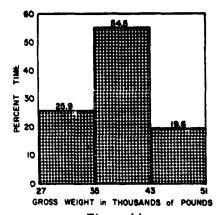


Figure 14
Percentages of Total Flight (Mission I) Time
Spent in Selected Gross Weight Ranges

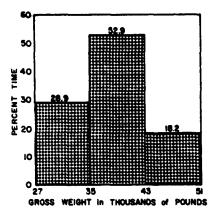


Figure 16
Percentages of Total Flight (Mission III) Time
Spent in Selected Gross Weight Ranges

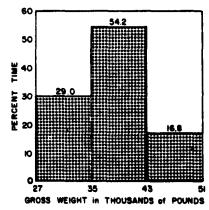


Figure 18
Percentages of Total Flight (Mission V) Time
Spent in Selected Gross Weight Ranges

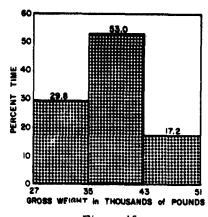


Figure 15
Percentages of Total Flight (Mission II) Time
Spent in Selected Gross Weight Ranges

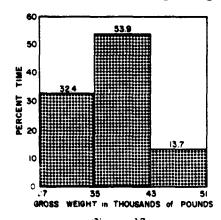


Figure 17
Percentages of Total Flight (Mission IV) Time
Spent in Selected Gross Weight Ranges

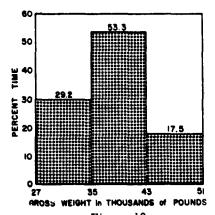


Figure 19
Percentages of Total Flight (Composite of All
Missions) Time Spent in Selected Gross Weigh
Ranges

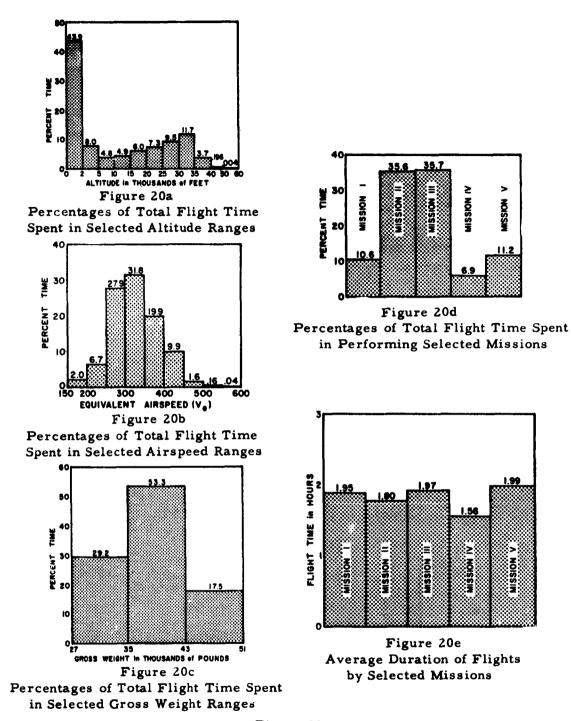


Figure 20

Summary of Total Flight (Composite of All Missions) Time Distributed by Parameter Ranges and Mission Type with the Average Flight Time of Each Mission Type

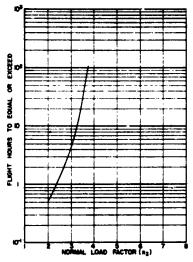


Figure 21
Probability Curve —
Mission I (Photo High)

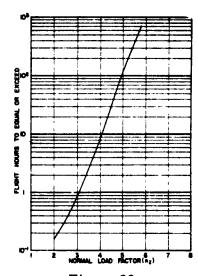


Figure 22
Probability Curve —
Mission II (Photo Low)

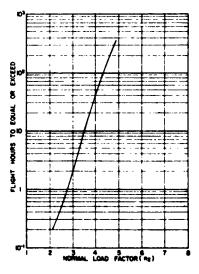


Figure 23
Probability Curve —
Mission III (Photo
High - Low - High)

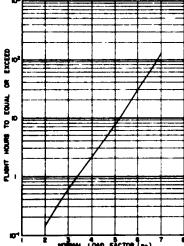


Figure 24
Probability Curve —
Mission IV (Transition
and Test Hops)

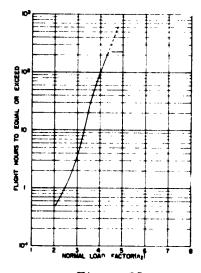


Figure 25
Probability Curve —
Mission V (Navigation
and Instruments)

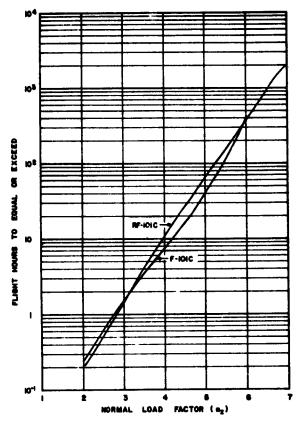
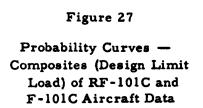


Figure 26

Probability Curves —
Composites (Load Factor)
of RF-101C and F-101C
Aircraft Data



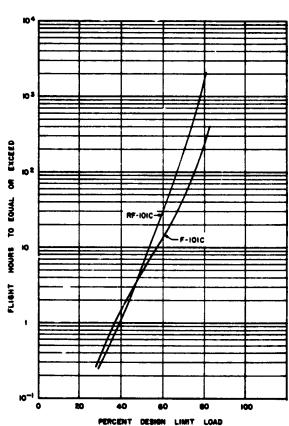


Table 1
Distribution of Flight Hours by Equivalent Airspeed and Altitude — Composite of All Missions

| 4. | T 1 T | UDE | | | EQUIVALENT AMPREED - V SKNOTS | | | | | | | | | |
|-----|---------------------|-----------|--------|--------|-------------------------------|---------|----------------------------|---------|---------|-------|-------|------------|------------|------|
| | iLO | | FT 150 | | fe to | | 200 250 300 249 299 349 | | 390 440 | | 490 | 900 949 | 550 599 | (hr) |
| 50 | | 59.99 | | 0.03 | 0, 94 | | | | | | | 0.04 | | |
| 40 | 10 | 49.99 | 9, 49 | 0,04 | 4.04 | 0. 12 | | | | | | 3. 29 | | |
| 35 | | 39.99 | 2, 59 | 4.91 | 48. 12 | 5. 38 | 0.07 | 0.02 | | | | 75.09 | | |
| 30 | 10 | 34.99 | 3. 19 | 31, 23 | 153, 36 | 48, 70 | 0.28 | 0.02 | 0. 02 | | | . 230. 40 | | |
| 23 | lo | 29 99 | 9.74 | 12. 14 | 78.77 | 104. 65 | 2. 47 | 0.10 | 0.02 | | | 192. 94 | | |
| 20 | le | 2499 | 0,92 | 10.55 | 49.49 | 72. 83 | 18. 11 | 1. 16 | | | | 147.04 | | |
| 15 | to | 19.99 | j. 41 | 9. 22 | 41.47 | 49. 12 | 17. 12 | 2. 12 | 0.16 | | | 170. 8 | | |
| 10 | to | 1499 | 0. 05 | 3, 70 | 23, 34 | 49.70 | 2a 77 | 3. 47 | 1.00 | 0.11 | | 19 81 | | |
| 5 | to | 9 99 | 0.49 | 4.21 | 17. 04 | 44. 28 | 23.74 | 5 68 | 0 85 | 0.21 | | 97. 10 | | |
| 2 | 10 | 499 | 1, 19 | 5. 24 | 24, 53 | 69 57 | 40.05 | 14.00 | 2.04 | 0, 10 | 0.05 | 162.84 | | |
| ō | to | 199 | 28. 23 | 54, 76 | 118.58 | 208.74 | 273, 54 | 174. 50 | 28 03 | 2. 21 | 9.71 | . 889.34 | | |
| FLT | TII | AE (Nr) | 39. 90 | 130.16 | 506.00 | b44. 29 | 402, 15 | 201.15 | 32. 10 | 4. 69 | 0, 76 | 2025. 21 | | |

Table 2

Distribution of Equivalent Maneuver Load Factors by Mach Number — Composite of All Missions

| | | | | - | | | | | |
|--------------------------------------|-------------|--------------|--------------------|--------------------|-------------|---------------------|--------|--|--|
| EQUIVALENT | MACH NUMBER | | | | | | | | |
| LOAD FACTOR (R _{Eq}) | 0.20 | 0.40 0.50 | 0.60 te 0.79 | 0.90 te 0.99 | 1 10 100 | 1.20- te 1.39 | NO No. | | |
| 70 to 7 99 | | | | | | | 1 | | |
| 60 to 6.99 | | | | ī | | | 1 | | |
| 5.0 to 5.99 | | 3 | 7 | • | | | - | | |
| 45 to 4.99 | | 5 | 22 | 10 | | | 37 | | |
| 4.0 to 4.49 | | 18 | 70 | 14 | | | 102 | | |
| 35 to 399 | | 108 | 201 | 29 | 1 | | 333 | | |
| 3.0 to 3.49 | 2 | 475 | 609 | 72 | 3 | | 1161 | | |
| 25 to 290 | î î | 1224 | 1331 | 113 | 3 | 1 | 2674 | | |
| 20 to 249 | 13 | 2098 | 1477 | 250 | - | | 3830 | | |
| 00 to -0.49 | | 3 | 3 | | | | • | | |
| -0.5 to-0.99 | | | | | | | 1 | | |
| -10 to-140 | | | [| | | | Ι | | |
| TOTALS | 17 | 3920 | 3720 | 495 | | | 6949 | | |

Table 3

Distribution of Maneuver Load Factors by Equivalent
Airspeed — Composite of All Missions

| LOAD | EQUIVALENT AIRSPEED - V ₆ (KNOTS) | | | | | | | | | | TOTAL |
|----------------|--|------------------|-----|------------|------|------------|------------------|-----|------------|-----|---------|
| FACTOR (ng) | 150 | 200 to 249 | 250 | 300 349 | 350 | 400 449 | 450 10 499 | 500 | 590 599 | 949 | 160. eg |
| 7.0 to 7.99 | | | | 1 | | | | 1 | 1 | | 1 |
| 60 to 6.99 | | | | T | Ī | 1 | 3 | 1 | 1 | Γ- | |
| 50 to 598 | | | T | 2 | Ī | | | 2 | | T - | 22 |
| 4.5 to 4.90 | | | | 2 | 20 | 16 | 13 | 4 | | T | 55 |
| 40 % 449 | | | 5 | 16 | 25 | 48 | 16 | 3 | 5 | 1 | 109 |
| 16 to 100 | | | 4 | 30 | 74 | 93 | 28 | 7 | | T | 234 |
| 30 to 340 | | [| 44 | 230 | 410 | 325 | 63 | 10 | 5 | T | 1107 |
| 25 % 250 | | 4 | 209 | 803 | 1065 | 747 | 146 | | 1 Î | T | 2984 |
| 20 to 2.40 | | 27 | 403 | 1274 | 1846 | 900 | 178 | 25 | 7 | Ī | 4306 |
| 0.0 to -0.00 | | | | | 3 | 3 | | | | | 6 |
| -01 h -011 | | | | I | Γ | Ī | Ī : | Ī | Ī | | |
| TOTALS | | 30 | 665 | 2357 | 3143 | 2146 | 471 | 81 | 10 | 1 | 889 |

TOTAL FLIGHT TIME (2025.4 No.)

NUMBER OF FLIGHTS (1002)

Table 4
Distribution of Maneuver Load Factors
by Equivalent Airspeed — Mission I

| LOAD | EQUIVALENT AMOPEED - V _g (KNOTS) | | | | | | | | | | |
|----------------|---|-----|-----|-----|-----|-----|-----|-----|------------|------------|--------|
| FACTOR (ng) | 190 | 200 | 250 | 300 | 390 | 460 | 450 | 900 | 550 500 | 600 649 | TOTAL* |
| 7.0 to 799 | | | | | | | | | 1 | | |
| 60 to 699 | | | | | | | | | | | |
| 8.0 h 8.99 | | | | | | | | | | | |
| 45 h 499 | | | | | T | | | | | | |
| 4.0 to 449 | | | | | 1 | 1 | | | | I | |
| 15 to 199 | | | 1 | 1 | 1 | 1 | | | 1 | | , |
| 10 to 3.40 | | | 1 | 19 | 13 | 12 | | | I | Γ | 46 |
| 2.5 to 2.99 | | | 7 | 34 | 15 | 17 | • | Γ | | | 101 |
| 20 m 240 | | | 49 | 96 | 29 | 18 | 3 | | | | 197 |
| 0.0 % -0.49 | | Ī | | | | | [| L | | | |
| -03 % -0.99 | | | | | | | | | | | |
| TOTALS | | | 57 | 150 | 80 | 49 | 15 | | | Ī | 351 |

Flight Time (214.2 Hre.)

Studer of Plights (110)

Table 5
Distribution of Maneuver Load Factors
by Equivalent Airspeed — Mission II

| LOAD | | | | | T 480 | 1E0 - Y | (101078) | | | | TOTAL |
|----------------|-----|-----|-----|-----|-------|---------|----------|------------|-----|------------|---------|
| FACTOR (ng) | 190 | 200 | 250 | 320 | * | 400 | 480 | 100 140 | 940 | 860 940 | 110. Rg |
| 70 to 7.90 | | | | | | | | | | | |
| 60 to 630 | | | | | | | | | 1 | | 7 |
| 5.0 % 5.00 | | | | | | | 1 | | | | • |
| 4.5 b 490 | | | | 2 | , | , | 10 | | | | 20 |
| 4.0 to 4.40 | | | 3 | 12 | 13 | 30 | 11 | • | 1 | | 75 |
| 35 % 3.00 | | | , | • | 39 | 55 | 12 | 3 | | | 110 |
| 3.0 to 349 | | | 26 | 85 | 553 | 204 | 44 | 2 | , | | 593 |
| 2.5 to 2.99 | | 1 | 97 | 336 | 504 | 470 | 72 | - | | 1 | 1488 |
| 20 to 240 | | 13 | 197 | 464 | 793 | 169 | 175 | 24 | 7 | | 2091 |
| 0.0 to -0.48 | | | | | , | | | | | T | 3 |
| -05 % -090 | | | | | | | | | | | |
| TOTALS | | 16 | 205 | 900 | 1526 | 1333 | 266 | 40 | 16 | | 4393 |

Table 6
Distribution of Maneuver Load Factors
by Equivalent Airspeed — Mission III

| LOAD | | | | | T APR | y- 433 | (HINOTS |) | | | TOTAL |
|----------------|-----|-----|-----|-----|-------|--------|---------|------------|-----|-----|---------|
| FACTOR (Pg) | 150 | 240 | 290 | 320 | 300 | 400 | 440 | 900 3-3 | 100 | 640 | MED. Ay |
| 70 to 7.99 | | | | | | | | | | | |
| 6.0 to 6.99 | | | | | | | | | | | |
| 5.0 h 5.99 | | | | | | | | | | | |
| 45 h 490 | | | | | 1 | , | | | | | - |
| 40 % 449 | | | | | 5 | 7 | • | | 1 | | 17 |
| 35 % 3.99 | | | | 10 | 1) | 20 | 2 | , | 1 | | 49 |
| 30 h 349 | | | 10 | 94 | 113 | 73 | 20 | , | | | 309 |
| 2.5 % 299 | | 3 | 47 | 333 | 370 | 193 | 36 | 2 | | | 100 |
| 20 to 240 | | 33 | 153 | 523 | 535 | 184 | 41 | 1 | | | 1460 |
| 0.0 % -0.49 | | | | | | 1 | | | | | , |
| -0.5 % -0.99 | | | | | | | | | | | |
| TOTALS | | 24 | 230 | 930 | 1037 | 482 | 10) | 11 | 2 | | 2829 |

Table 7
Distribution of Maneuver Load Factors by Equivalent Airspeed — Mission IV

| LOAD | | | • | DUNALEN | T AIRS | TED -Y | (KNOTS | 1 | | | |
|-----------------------------|--------|---------|----------|---------|--------|--------|--------|------------|----------|----------|-------|
| FACTOR (n ₂) | 150 | 200 | 250 | 300 | 360 | 400 | 450 | 500 549 | 550 | 600 | NO.ng |
| 70 to 798 | | | | | | | | 1 | | | - |
| 6.0 N 6.99 | | 1 | | | | 1 | , | | † | | |
| 50 % 5.99 | | | | | 1 | 5 | 7 | 2 | 1 | <u> </u> | 19 |
| 45 % 499 | | | | | 16 | 111 | - | 2 | | | 32 |
| 4.0 to 4.49 | | | | • | 6 | 7 | 1 | 1 | | | 14 |
| 35 % 3.99 | | | 1 | 10 | 18 | 15 | , | 1 | | | 54 |
| 30 % 349 | | | 1 | 21 | 40 | 24 | 10 | , | | | 91 |
| 25 % 299 | | | 16 | 64 | 101 | 34 | 22 | 1 | | | 258 |
| 20 to 249 | | | 25 | 113 | 127 | 93 | 13 | 1 | | 1 | 377 |
| 0.0 %-0.49 | | | T | | | | | 1 | | | |
| -0.5 to -0.99 | | I | | | | 1 | | | | | |
| TOTALS | | | 43 | 214 | 309 | 206 | 68 | 10 | | | 850 |
| | Plight | Time () | 40,8 Rrs | | | | 114 | ber of | Plicate | (90) | |

Table 8
Distribution of Maneuver Load Factors
by Equivalent Airspeed — Mission V

| LOAD | | | • | | IT AIRSE | EED -4 | (KNOTS | , | | | |
|----------------|------------|------------|----------|-------------|----------|--|-------------|------------------|--|--|----------------|
| FACTOR (Ng) | 150 199 | 200 249 | 250 | 300 | 390 | 400 | 450 | 500 10 549 | 550 | 600 | TOTAL NO ng |
| 70 to 799 | | | | · · · · · · | | | | | | | |
| 60 - 699 | | | | <u> </u> | | | | | | | ļ |
| 50 % 8.99 | | | | 1 | | | <u> </u> | | | | — |
| 45 % 499 | | | | | | | | | | | |
| 4.0 % 449 | | | | | | 1 | | | | | 1 |
| 35 % 3.99 | | | | 1 | 7 | • | | | | - | ⊢÷ |
| 30 to 3.49 | | | • | #1 | 20 | 12 | , | | | | 64 |
| 25 to 200 | | | 22 | * | 33 | 1) | 7 | | | | 122 |
| 2D to 2.00 | | | .19 | 76 | 233 | 45 | , | | | | 237 |
| 0.0 to ~0.49 | | | | | | | | | | _ | |
| OS 10 -0.50 | | | | | | | | | | | |
| TOTALS | | 1 | 47 | 175 | 189 | 73 | 19 | | | | 466 |
| | Plight | Time (22 | 6.4 Rrs. |) | | | | her of | 7110010 | (135) | |

Table 9

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission I — Gross Weight Range: 27,000 to 35,000 lb.

| LOAD PACTOR | | | | | | e 20co : | | | | | | | | | | | 2600 10 | | | | | |
|---|-----------|----------------------|--|--|--|--------------------------------|--|------------------|--------------|--|---|--|---|---|---|---------------------|--|--|-------------------------------------|--------------|--|--|
| 10.1 | 150 | 100 | 1 100 | | | 400 | V. 168078 | | | | 7974L | FACTOR | | | | | | 10(E) · | | | | |
| | 2 | 240 | 200 | 300 | 356 | 13 | 460 | 100 | 990 | 3. | | (0,1) | 190 | 100 | 280 | 100 | 110 | 400 | 450 | 100 | 19 | 800 10 |
| 10 6 90 | | | | | | 1 | | | | | | 80 10 8 90 | | - 74 | 1 | 1.341 | _ | 247 | 100 | - 112 | | |
| 10 9 90 | | | | | | L | | | | | | 5 0 to 5 99 | | | T | | | 1 . | - | <u> </u> | | |
| 10 4 90 | | | | | | | | | | | | 4 5 10 4 96 | | | | | | | | | | |
| 0 10 4 49 | | | | | - | | | ├ | | ļ | | 4 0 10 4 49 | | | | | | 1 | | | | |
| 10 149 | | ļ | | + | | | - | | | | • | 3 5 10 3 00 | | | | <u> </u> | | | | i | ļ | L |
| 3 10 2 80 | | | | 10 | 19 | + | | | + | | 17 | 25 10 2 90 | | | | - | | + | | | - | |
| 0 14 2 49 | | | + | 20 | +-:- | + ; | + | - | | | *** | 20 10 240 | | | | | , | | | •— | + | - |
| 0 10 0 40 | | | 1 | 1 | | · | 1 | 1 | _ | | 1 " | 00 . 049 | | | | | | + | | + | | |
| 9 10 -0 00 | | 1 | | | 1 | | 1 | | | | | 05 10 -0 94 | | | | + | | | - | | | |
| T THE | 146.8 | 248.3 | 204.4 | 240.1 | 140.2 | 19.3 | 4.5 | 0.1 | | | 1107.3 | FLT Total | 9 ; | 10 1 | 72.5 | 64.1 | 11.0 | | _ | - | | |
| | | | | * | • | | | | • | | | | l | | 1 | 1 | 1 | 1 11 | | ¥ | | |
| 1000 | | | | 100'YAL | L. C DE | 0 feet | . (480" 5 | | | | TOTAL | | r | | _Au | 0 01 obje | | 00 · '++1 | V. 189071 | | | |
| ACTOR | -80 te | 201 | 230 | 300 | 350 | 400 | 450 | | 830 | 600 | 10 A | FACTOR | 150 | 200 | 250 | 1 800 | 330 | 1 400 | 1 490 | | \$50 | |
| (#4) | * | | 200 | 149 | _m_ | 999 | 429 | 900 (a 949 | 200 | -32- | لــــــــــــــــــــــــــــــــــــــ | 10,1 | 150 | 200 | 250 | 340 | 10 | 442 | 100 | 50C | 10 | 600 10 |
| '0 6 99 | | | | | | | | | | | | 60 10 6 00 | | | | | 1 | | 1 | 1 | | 1 |
| 10 3 00 | | | | | | | | ↓ | | | | 5 C 10 5 90 | | | | | <u> </u> | | | | | |
| 10 4 99 | | | | | | | | | | | - | 4 5 10 4 00 | | | - | 1 | | | | | | |
| | | <u> </u> | | | | | | | | ! | | 4 7 10 4 49 | | | + | 1 | 1 | 1 | | | 1 | |
| 10 3 00 | | - | | 2 | - | | | | | | ├. ┤ | 3 5 10 3 90 | | - | + | + | + | + | | | | ļ |
| ** 2 99 | | | | | - | | | | | | • | 2 5 10 3 09 | t | , | + | 1 | + +- | | + | | + | ├ |
| 0 to 7 49 | | | 10 | 2_ | | | | | | | | 70 10 2 40 | | | 1 7 | + | - 2 | + | | + | + | - |
| 10 -0 40 | | | | | | L | | | | | | 00 10 0 49 | | — — | | + • | | + | + | + | + | + |
| 10 -0 98 | | | | | | L | | | | | | 0 5 10 0 99 | - | - | + | | + | - | - | + | + | |
| | 1 2 | | , | 95.4 | 1, 1 | 2 • | | | | | . , , | F.7 7100 (404.) | | | , | | | + | | | | |
| | | _ <u></u> - | | | | | | | | | | 1941 | ٠.٠ | ٠. | T-#1 | 37.0 | 1 10 0 | <u> </u> | | ٠ | ــــــــــــــــــــــــــــــــــــــ | L |
| ACTOR IPg1 | 150 | 200 | 250 | 30C | 350 | 100 | 490 490 | 900 to | 190 | 600 10 | 707 AL 85 % | FACTOR (0g) | 180 | 200 | 280 | 300 | 390 | 400 | 490 | 900 | 950 | 900 |
| 0 14 6 90 | | | | | | | | | | | | 60 10 6 99 | I | L | | | | | | | | |
| D 14 5 90 | | | | | | | | | | | | 8 0 to 5 90 | | | | 1 | | | | \Box | 1 | |
| S 10 4 90 | | | | - | | | | | - | L | | 4 5 10 4 90 | 1 | <u> </u> | - | | - | + | | 1 | - - | |
| 0 10 4 10 | | 1 | + | | | | | | | | | 4 0 10 4 40 | | | | + | | + | | | | |
| 5 10 3 99 | | | | | | | - | - | | _ | | 3 5 10 3 90 | | + | + | + | + | + - | + | + | + | + |
| | | + | | | - | | | | 1 | | | 23 10 200 | + | + | + | ,- | + | + | + | | + | + |
| 10 340 | | | | | | | | | | | | | | | 1 | + | † | + | | + | | |
| 9 10 2 40 | | | | | | 1 | l | 1 | i. | | | | | + | | | | | | | | |
| 9 10 2 40 | | | - | - | - | | - | - | | _ | | 00 10 2 40 | 1 | | | 1 | 7 | | _ | _ | | 1 |
| 0 10 2 00 0 10 2 00 0 10 2 00 0 10 0 47 | | | = | Ė | | = | | | | | | 00 10 -0 40 | - | † | | | - | - - | | \vdash | - | |
| 5 % 2 99 0 % 2 41 8 % -8 47 5 % -8 90 | 6.1 | 20.1 | 24.3 | 161.7 | 1.3 | 34,1 | 1.3 | | | | у6.1 | 00 10 -0 49 -03 10 -0 90 7(1 7 mg | ,, | ۳. | 155 7 | 245 0 | , m , | | | | | E |
| 5 to 200 0 to 2 40 0 to 0 47 5 to 0 00 7 T Pulls | 6.1 | 3. , | | 161.7 | 100 to 10. | 200 (qqq | 1.3 | | | | | 00 to -0 ap | ,, | ,, | | Limber 10 | | | V ₀ (RI00*8 | | | |
| 5 to 200 0 to 2 40 0 to 0 47 5 to 0 00 7 T Pulls | 6.1 | 20.5 | | 161.7 | 100 to 10. | 200 (qqq | | 300 | 100 | 000 | 316.1 | 00 10 -0 40 | 3 3 | 100 | | Limber 10 | \$60 to 3 | | V ₀ (RBO [*] 2) | 100 | | *** |
| 5 to 2 50 to 2 | | | Alt | 163.7 | 1800 to 180 . ENT AN | eer teer | | | 800 | | | 0.0 10 - 0.0 0 0.5 10 - 0.0 0 7,7 7402 1008 | 33 | | A | Limde 10 | \$60 to 3' | a secto | | | | |
| 5 to 200 0 to 2 do 0 to 2 do 0 to 2 do 0 to 0 do | | | Alt | 163.7 | 1800 to 180 . ENT AN | eer teer | | | | | | 0.0 is -0.0 is | 33 | | A | Limde 10 | \$60 to 3' | a secto | | | 500 | |
| 0 to 2 00 to 2 | | | Alt | 163.7 | 1800 to 180 . ENT AN | eer teer | | | 500 | *** | | 0.0 is -0.0 is | 33 | | A | Limde 10 | \$60 to 3' | a secto | | | 300 | |
| 0 to 2 00 to 4 | | | Alt | 163.7 | 1800 to 180 . ENT AN | eer teer | | | 89 | | | 00 10-0 10 00 11-0 10 00 11-0 10 10-11-11-11-11 10-11-11-11-11-11-11-11-11-11-11-11-11-1 | 33 | | A | Limde 10 | \$60 to 3' | a secto | | | 500 | |
| 0 % 200 % 2-00 % 10-0 40 5 % 0-0 00 7 Final (1900) 1 10-0 00 1 10 | | | Alt | 163.7 | 1800 to 180 . ENT AN | eer teer | | | 500 | *** | | 00 10-0 10 03 11-0 10 03 11-0 10 07.1 Time 100-1 100-1 100-1 00 10 0 00 10 00 | 33 | | A | Limde 10 | \$60 to 3' | a secto | | | 33.52 | 3. |
| 5 % 2 90 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % | | | Alt | 163.7 163.7 163.7 163.7 163.7 163.7 163.7 | 1800 to 180 . ENT AN | eer teer | | | 800 | | | 00 18-0 09 03 18-0 09 07 17 THE 1800 1 00 18-0 09 08-07 08-0 | 33 | | A | Limde 10 | \$60 to 3' | a secto | | | 322 | |
| 9 % 2 99 % 9 % 9 % 9 % 9 % 9 % 9 % 9 % 9 | | | Alt | 163.7 | 1800 to 180 . ENT AN | eer teer | | | 500 | | 1974; 1974; | COAD 10-0-00 PT. T THE LOCAL COAD COAD COAD COAD COAD COAD COAD COAD | 150 | | A | Limde 10 | \$60 to 3' | a secto | | | 33 | 23. |
| 5 % 2 99 % 3 9 % 3 9 % | | | Alt | 163.7 163.7 163.7 163.7 163.7 163.7 163.7 | 1800 to 180. Em T - Add | eer teer | | | \$00 22. | | | 00 10-0 00 03 10-0 00 03 11-0 00 03 11-0 00 10-0 10-0 00 10-0 10-0 00 10-0 10-0 | 150 | | A | Limde 10 | \$60 to 3' | a secto | | | | |
| 5 % 2 99 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6 | | | Alt | 163.7 163.7 163.7 163.7 163.7 163.7 163.7 | 1800 to 180. Em T - Add | eer teer | | | 200 | 200 | 1974; 1974; | COAD 10-00 00 10-10-10-10-10-10-10-10-10-10-10-10-10-1 | 150 10 | | A | Limde 10 | \$60 to 3' | a secto | | | | 23. |
| 9 % 200 % 12 | | | Alt | 163.7 163.7 163.7 163.7 163.7 163.7 163.7 | 1800 to 180. Em T - Add | eer teer | | | *** | *** | 1974; 1974; | 0.0 1a-0 ap 0.3 1a-0 ap 0.3 1a-0 ap 0.3 1a-0 ap 0.4 1 Trace 1.000 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 | 150 10 | | A | Limde 10 | \$60 to 3' | a secto | | | **** **** **** | |
| 9 to 2 40 0 to 2 40 0 to -0 49 5 to -0 00 7 Final (1000) | | | Alt | 163.7 163.7 163.7 163.7 163.7 163.7 163.7 | 1800 to 180. Em T - Add | eer teer | | | 200 | 2. | 1974; 1974; | COAD 10-00 00 10-10-10-10-10-10-10-10-10-10-10-10-10-1 | 150 10 | | A | Limde 10 | \$60 to 3' | a secto | | | | |
| 10 12 20 10 10 10 10 10 10 10 10 10 10 10 10 10 | | 2000 1000 1000 | A10 200 100 100 0 | 153.7 153.7 1800Wig 180 | 100 to 30 to | 000 (per 000 - 1 000 - 1 | (000T) | *** | 544 | 000 | 19744 60 m | 0.0 10 -0 00 0.3 10 -0 00 FIT THE 1888 1 100 10 00 10 00 | 150 10 | 200 | 200 10 200 200 | Egurvá. BOO 10 248 | 900 to 3/ | 000 (p.) | 450 | 100 | 540 | 500 |
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| 1 % 10% 10% 10% 10% 10% 10% 10% 10% 10% | 11 | 7 1 | 250 200 200 200 200 200 200 200 200 200 | 153.7 153.7 1804Wis, 180 190 190 190 190 190 190 190 190 190 19 | e 3 | 000 (pp) | (8307a | 2 | | | 797 AL | 1,000 to -0.00 for 1.00 to -0.00 for 1.00 for 1. | 190 190 190 190 190 190 190 190 190 190 | 100 pg 348 | Z SO TO | Egural | 960 to 3/2 and 3500 and 3/2 an | 100 (act | 450 | 100 | | 000 001 001 |
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Table 10

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission I — Gross Weight Range: 35,000 to 43,000 lb.

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| 3 9-64 | | | L | | | | | | | | |
| 9 4 9.00 | | | | | | | | | | | |
| <i>3</i> | 18.4 | 4.0 | - | | | | 141 | 4 | | | - |

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| 1000 | | | | - | (87) 46 | - | - | N | | | _ |
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| 60 % 6.00 | | | | | | | | I | | | |
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| 10 10 14 | = | 厂 | | | | | = | - | | | |
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| 40 = 40 0 0 40 | | | | | | | | \equiv | Ш | | \mathbf{E} |
| AL THE | 4.6 | 3.0 | 86.3 | 100.4 | 49.1 | 0.3 | 8.4 | | | Γ | 188.6 |

| | | | - 4 | - | | 9 feet . | | | | | |
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| 44-4.40 | | Ц | | | | | | | | | _ |
| ** | | | | | | | | | | | |
| 47.75 | | 1,0 | 18.1 | 100.1 | 64.3 | 7.6 | 8.8 | 4.0 | | _ | - |

| | | | | | 10.000 | 30.15.0 | | | | | |
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| 3 8 to 1.00 | | | | _ | | $\overline{}$ | T | | | $\overline{}$ | T |
| 30 10 340 | | | | | | | | | | | |
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| 88 9 9 66 | | | | | _ | | | | | | |
| 4 6 10 -0.00 | | | | | | | | | | | |
| 41.14 | 9,4 | 88.3 | 100.0 | 72,4 | 19.7 | 8,9 | 20,4 | 9,3 | | | 100.0 |

| | | | | in is | . 000 po 2 | . 990 feet | | | | | |
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| rictin (n ₁) | 14 | 7 | 2 | 1 | = | *** | 1 | 3 | 1 | 7 | 155 |
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| 76679R (Rg) | ** | 3 | 1500 | 13 | 5 | 13 | 13 | 3 | 1 | 1 | 1 |
| 60 to 8 80 | | | | 1 | | | Τ. | I | | \mathbf{T} | $\overline{}$ |
| 20 H 8 90 | | | $\overline{}$ | | T | $\overline{}$ | T | T | 1 | 1 | $\overline{}$ |
| 4 6 10 4 80 | | | | | | | | T | | T | 1 |
| 40 10 4 60 | | | | | L | | | | | T | |
| 5 5 10 3 BD | | | I | Ι | | T | I. | Τ. | Γ | 1 | T |
| 3.0 10.340 | | I | | | | | Ι | L | Γ. | | |
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| 10 10 E 40 | | | 1.5 | | | | Γ | 1 | I | | |
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| LOAD POCTOR | | | | tourse | - | umass . | V ₀ (KR871 | B1 | | | 1914 |
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| rector (+ ₂) | ri | 12. | 100 | 100 | 300 | 100 | 490 | 100 | *** | 330 | 1 |
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| A1 191 | 10 1 | 17.6 | 990 1 | | 1 | 1 | 1 | \vdash | | _ | 100 1 |

Table 11

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission I — Gross Weight Range: 43,000 to 51,000 lb.

| | | | | Altuto | de 9 to 20 | 100 Sept | | | | | |
|----------------|-----|------|------|-------------------|------------|---------------|----------|------|-----|-----|-------|
| LOAD FACTOR | | | | EBUIWAL | ENT AM | PRES - | , ICHOTS | | | | 101AL |
| FACTOR (Pg) | 22 | 200 | 200 | 300 100 100 | 350 | 100 | 454 | 1000 | 560 | 600 | 47 4 |
| 60 10 6 90 | | T | | T | 1 | | | | _ | 1 | |
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| 4 5 10 4 50 | | 1 | | | 1 | $\overline{}$ | | 1 | | 1 | |
| 4 8 to 4 40 | | | | 1 | 1 | | | 1 | | 1 | |
| 3 5 10 3 90 | | | | | | | | | | | |
| 10 10 100 | | I | | I | 1 | | | 1 | | | |
| 2 5 10 2 80 | | T | | | 1.1 | 4 | | | | | |
| 28 10 240 | | 1 | | T i | | | 1 | | | | 11 |
| 88 10 8 40 | | Τ | | 7 | Ι | | 1 | T | | | |
| -0 5 10 -0 90 | Ĺ | | Ш | | | | 1 | I | | | |
| FLY THEE | 2.6 | 36 2 | 34.7 | ** | 156 9 | 76 1 | 22 1 | | | | 487 1 |

| | ŀ | | | EBUYEL | .EUT AIR | seeto - s | (1888TQ | 11 | | | 10144 |
|---------------|----|-----|------|--------|----------|-----------|----------|-----|---|----|-------|
| FOCTOR (*) | 22 | 200 | 250 | 300 | 300 | *** | *** | 100 | 3 | 3, | - |
| 6.6 10 6 90 | | | | | | | | I | | | |
| 80 m 100 | | | | Τ | L | | | | I | | Ι |
| 4.5 to 4.90 | | | T | 1 | | | | T | | | |
| 4 9 10 4 40 | | | T. | Ι | 1 | | · | | · | | |
| 3 1 10 100 | | | 1 | 1 | | | | | | | |
| 3.0 to 3.00 | | I | L | | | | | I | | | I |
| 11 4 100 | | | I | T | | | | T | | | _ · |
| 20 10 249 | | | T I | I L | I 7 | | | I | | | 7 |
| 8 6 4 -9 49 | | | | 1 | | | | | | | |
| | F | | Τ | | Γ | | | T | | | |
| PLY YES | | | 1 44 | 21.2 | | 12 7 | . 7 | | | | 140 |

| | | | | Lauve | SMT AN | | V, 1500TE | | | | 1 |
|----------------|-----|--------------|--|-------|--------|-----|---------------|-----|----------|-----------|--------|
| PACTOR (Pg) | 100 | 100 | 100 | 100 | 3100 | 400 | 450 | 800 | 980 | 600 12 | 70 TAL |
| 10 6 99 | | 1 | _ | _ | 1 | _ | 1 | 1 | _ | _ | • |
| | | 1 | | | 1 | 1 | | 1 | | | |
| 4 5 10 4 86 | | | 1 | | Ī | Ť | | 1 | | | |
| 4 9 10 4 49 | | \mathbf{I} | | I | | | $\overline{}$ | 1 | \vdash | | |
| 3 8 10 3 90 | | | | | | I | | 1 | | | |
| 30 10 340 | | | 1 | 1 | I | | | I | I | | 1 |
| 23 10 2 90 | | | | | T. | | L^{-} | T | | | |
| 2 0 10 2 40 | | | | I | 1 | | | I | | | 1 |
| 00 10 -0 49 | | | I | | | | L | I | | | |
| -0 5 10 -0 90 | | | | | 1 | Ι | | | | | |
| 0.1 798 | | | ., | 61.7 | 1 | 7, | | 1 | | | 163.3 |

| | | | | 1411mdo 16 | . 000 to 11 | . 886_fort | | | | | |
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| - | 1040 PACTOR 104 | | | EGHAFF | ENT AM | PID · | , (COS) | 1) | | | 1074 |
| POETOR (a ₂) | 2-1 | 133 | 100 | 300 | 100 | 12 | 3 | 1 | *** | 3. | - |
| 4.0 to 4.00 | | T^{-} | | 1 | T | Т | | | | | |
| 80 to 8 90 | | | | | Т | | I | | Ι | 1 | 1 |
| 41 14 4 60 | | T | 1 | T | T | Γ | T | T | τ | | T |
| 45 | | | | T | Ι | | | | | | |
| 3 5 to 500 | | I | T | | | I | | 1 | | | T |
| 10 - 10 | | T - | | T - | I - | | I | 1 | Γ | | 1 |
| 11 - 180 | | | | | I | | | Ι | | | 1 1 |
| 10 - 14 | | | I | Γ | L | 1 | | 1 | I | | 1 . |
| | | T | 1 | | T | | | $\overline{}$ | | | 1 |
| -0.00 | | | | | T | | I | T | T | Ι. | T |
| A1 14 | | 1.6 | 27.3 | 94.2 | 71.9 | 1.0 | 0.8 | | 1 | | 140.2 |

| | | | - | littude L | 6.000 to 2 | 8.888 Sec | <u> </u> | | | | |
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| LOAD | | | | - | ENT A1 | ertte - | V _e 148071 | B1 | | | TOTAL |
| PRÉTOR (Bg) | 100 | 170 | 200 | 300 | 390 | *** | 450 | 100 | 980 19 | 44. | # 5 |
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| 30 % 300 | | T | | | | _ | $\overline{}$ | 1 | Ť | | |
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| 4.0 to 4.40 | | T- | | T | 1 | 1 | | 1 | | | |
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| 30 10 340 | | T | | 1 | | | Ι. | 1 | | | |
| 25 - 200 | | | | | | | | 1 | | | 1 |
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| LOAD | | | | COUNTY | ENT AN | | V ₀ (4880) | 13 | | | - |
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| 88 to 8 99 | | - | _ | ĭ | | | | 1 | | | $\overline{}$ |
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| | | | | Attade .21 | .000 - 3 | 9, 898 feet | | | | | |
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| 1040 | L | | | EBUIVAL | .667 44 | - | V ₀ (\$40.75 | 11 | | | TOTAL |
| (ng) | * | 200 | 100 | 324 | 390 | 12 | *** | 120 | 300 | 37. | ** 5 |
| 60 10 6 60 | | 1 | I | 1 | | | | | | | 1 |
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| 1000 | | | | EQUIVEL | CWY 40 | | V ₀ (000) | la . | | | 191A |
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| Retire (4 ₃) | ** | I | 200 | 3 | 300 | 13 | T | 3 | 1 | 3. | - |
| 68 to 6 88 | | | I | 1 | | | | 1 | | 1 | T T |
| 5.0 to 5 to | | | I | I | | 1 | | | | | |
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| 11 ~ 100 | | | 1 | T | _ | T | 1 | 1 | | | • |
| 11 7 140 | | | | T | $\overline{}$ | 1 | 1 | 1 | | | - |
| 10 7 7 40 | | | 1 | | | 1 | $\overline{}$ | Ť | | | _ |
| 95 9.50 | | I | 1 | | | 1 | T | | | | 1 |
| | . 17 | | 210 0 | 101 7 | | | | | | | 002.0 |

| LOAD PACTOR | | _ | | - | - | . 1884 | V ₀ (# 98 7(| H | | | |
|----------------|----|-----|---------------|--------------|--|-------------|--|--|---------------|--|--------------|
| (mg) | 14 | 12 | 190 | 1 | 300 | *** | 1460 | 300 | 900 | 32. | 1014 |
| | | 1 | | _ | - | | _ | | | , - | , |
| 5.0 H 5 S | | 1 | $\overline{}$ | | † | † | + | + | _ | ├ | |
| 4 5 to 4 00 | | | | | _ | 1 | | + | | | + |
| 40 m 440 | | | 1 | | † | + | | | | + | ┿ |
| 3 3 Ho 3 80 | | | 1 | 1 | _ | + | - | +- | _ | | ┼─ |
| 5.0 10 1.40 | | 1 | | 1 | + | + | _ | + | _ | | + |
| 25 9 20 | | | | _ | + | + | | + | | | + |
| 2 0 N 1 00 | | | | | 1 | + | _ | | | | + |
| 80 10-9.49 | | | | 1 | 1 – | † | _ | 1 | - | - | _ |
| -0.00 to -0.00 | | | 1 | | 1 | 1 | | | ─ | + | + |
| N.1 148 | | 4.6 | | 1 | | 1 | | 1 | $\overline{}$ | 1 | 70.5 |

Table 12

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission II — Gross Weight Range: 27,000 to 35,000 lb.

| L040 | | | | COUNTY | WT 640 | P980 - 1 | - | | | | 1974 |
|--------------|-------|-------------|-----|--------|--------|----------|-----|------|------------|---|------------|
| 765 TOB | 100 | 300 1144 | 100 | *** | *** | *** | # | ** | 2 | * | |
| | | | | | | | | | _ l | | |
| 1 C 40 5 50 | | | | | | | | | | | |
| 4 5 10 4 56 | | | | | | | | | | | |
| 40 10 446 | | | | • | • | 10 | | | | | |
| 1 1 10 100 | | | | | . 4 | - M | | | | | 1 . |
| 3 C 10 3 40 | | | | | | | | | | | 148 |
| 21 '0 200 | | | ** | 130 | 141 | | | | 1 | | 198 |
| 7 D '4 2 49 | | | 76 | 171 | 189 | | | | | | |
| CC 'C .C 40 | | | | | | | | | | | L |
| C 5 '1 'C 98 | | 1 | | | | | | | 1 | | |
| 1070 | 472.6 | 1007.0 | | 1847.8 | 1053.0 | 199.0 | 8,0 | 20.3 | 6,0 | | T |

| | | | | 12444000 | 2,000 | 0 5,000 | feet | | | | |
|-------------------------------|------|------|---------------|----------|---------|---------|------------|-----|-----|----|---------------|
| LOAD | | | - | EGW44L | 997 446 | 97000 - | , table 18 | 1 | | | 79744 |
| mic ren i = _p 1 | 3-4 | 7 | 188 | 3 | *** | 3 | 3 | 2 | 4 | 3. | # 5 |
| | | | | | | | | | | | |
| | | | | | | 1 | 1 | | | | |
| 48 9 49 | | | | | | 1 1 | 1 | | | | Π. |
| 40 . 44 | - | | | 1 | | 1 | 1 | | | | - |
| 3 6 40 3 50 | | | | | | 1 | | | | | 1 |
| 10 % 14 | | L | | 1 | | | 1 4 | | | | - M |
| 1 7 10 | | | | | 111 | 7 | | | | | 27 |
| | | | 10 | | 11 | 7 | | • | | | 7 |
| 44 4 4 4 | | | $\overline{}$ | | | 1 | I | | | | $\overline{}$ |
| | | | | | Ι | 1 | Ι | | | | T |
| A1 174 | 10.1 | 75.0 | 831.0 | 530.7 | 394.0 | 35,4 | 10.0 | 2.0 | 0.1 | | 1004.0 |

| | | | - 41 | At mile : | 9,000 1 | 10,000 | Foot | | | | |
|-------------|-----|----------|-------|-----------|---------|--------|------|-----|---|---|-------|
| LOAD | | | | - | 947 84 | - | - | • | | | 1974 |
| 10g) | 2.1 | 22 | 364 | 3 | 1 | 1 | 1 | 3 | * | 3 | |
| 40 4 6 60 | | Γ | T | | | | | | | | |
| 10 to 0 to | | I | | | | | | | | | 1 |
| 4 5 10 4.00 | | L | | | | | | | | | 1-3 |
| 40 10 440 | | | 1 | | T | | | | | | |
| 11 4 10 | | | Γ | | | | | | | | |
| 1.6 4 34 | | | L | | | | 1 | | | | |
| 10 4 100 | | | T | <u> </u> | 1.6 | | | | | | 87 |
| 10 10 1 00 | | | | | | | | 4 | | | 1 10 |
| 88 9-64 | | | T | | 1 | | | | | | Γ |
| | L | | | | | | | | | | |
| 41 | 9,4 | 45.5 | 170.9 | 249.3 | 90.0 | 19.3 | 5.7 | 8.0 | Ī | | 263-9 |

| LONG | | | | EBUTYAL | BA 700. | 07000 · 1 | , 194878 | 1 | | | |
|-----------------------------|------|------|--------|---------|---------|-----------|----------|-----|---|---|-------|
| 70£700 10 _£ 1 | *** | 7 | 200 | * | ** | *** | 7 | 3 | 3 | 7 | |
| 44 4 6 | | | | | | | | | | | |
| 0.0 to 9 to | | | | | | | | | | | |
| 45 10 400 | | | | | | | | | | | |
| 4 6 14 6 40 | | | | | | 1 | | | | | • |
| 3 5 10 100 | | | | | 1 4 | | | | | | |
| 5.0 to \$40 | | | | 1. | L • | | | | | | * |
| 2 5 × 100 | | | | | | | | | | | • |
| 20 * 100 | | | | | | | | | | | * |
| 98 44 48 | | | | | | | | | | | |
| | | | | | | | | | | | |
| AT 198 | 29.4 | 10.9 | \$40.2 | 101.5 | 90.4 | 16.0 | 19.7 | 3.0 | | | 649.5 |

| L949 | | | | EQUIPMENT. | | | v_ 100071 | , | | | TOTAL |
|-------------------|------|------|-------|------------|------|-----|-----------|---|---|----|-------|
| 19 ₉) | \$1 | 100 | 350 | 100 | 42. | * | 12 | 3 | 3 | 3. | = - |
| | | T | | | | | T | 1 | | | |
| 10 10 10 | | | | | | | | | | | |
| 4 9 10 4 99 | | T | T | | | | | T | T | | |
| 10 m 140 | | | | | | | | | | | |
| 3 1 10 100 | | Ι | Ι | | | 1 | | Τ | Γ | Ι | 1 |
| 30 10 340 | | T- | | | | 1 | Ι | 1 | | | I |
| | | | 7 | | - | 7 | Τ. | 1 | | | 11 |
| 10 - 14 | | | 1 • | 14 | | | | I | | | - |
| 66 4-9 46 | | 1 | 1 | | | | T | T | | | T |
| -0 5 10 -0 00 | | | Ι. | | | | | | | Ι | |
| A. 7 | 14.5 | 93.7 | 490.9 | 200.3 | 66.3 | 9.7 | 4.0 | T | Ī | Ī | 933.0 |

| | | | 44 | i depte | | a 25,00 | Post . | | | | |
|-------------|--------------|-------|------------|-------------|---------|---------|--------|----|---|---|-------|
| 1000 | | | | - | 207 edi | - | - | 11 | | | 1974 |
| AGE TOO | 11 | E | 12 | 2 | 2 | ** | 7 | 3 | 1 | 1 | |
| | | | | | | | I | I | | | |
| 90 to 9 80 | | 1 | | Ι | | | | Ι | | L | L |
| 4 5 10 4 50 | | | | | | | | I | | | |
| 46 % 440 | | | \Box | L | | | 1 | Ι | Ι | Ι | L |
| 3 8 40 340 | | | | | | | | | | | |
| 30 % B4 | | | I | | | | | | | | |
| 10 - 10 | | I | L | | | | | | | | |
| 11 - 14 | | 1 . | _ <u>,</u> | | | | Ι | | L | | |
| 98 H-9 00 | | | 1 | 1 | | | | | | | |
| 49 44 48 | | | | | | | | | I | | |
| 2.7 | 10. 3 | 190.0 | 449.9 | #9.4 | 99,6 | 3.1 | | Ι | | | 939.9 |

| | | | - 43 | - | 25,000 | 10 20,00 | e foot | | | | |
|----------------|-----|---------------|---------------|---------------|---------------|---------------|------------------------|----|---|---|-------|
| LOAD | | | | Ethina | EW7 A4 | | V ₀ (18807) |)ı | | | 70784 |
| PRÉTOR (mg) | 14 | 1 | 200 | ** | * | *** | 1 | 3 | 3 | 7 | |
| 6.0 10 6 50 | | | | | | | 1 | Ι | 1 | I | |
| 5.0 N 5 B | | $\overline{}$ | $\overline{}$ | $\overline{}$ | | | - | | | | |
| 4 5 10 4 60 | | 1 | Ī | | 1 | 1 | Ī | 1 | 1 | 1 | 1 |
| 4 0 10 4 40 | | | | | | 1 | | | | | |
| 3 5 10 3 20 | | 1 | 1 | i – | 1 | T T | 1 | 1 | 1 | 1 | 1 |
| 30 to 840 | | î – | | 1 | | 1 | 1 | Ī | Ī | | |
| 1 0 9 1.00 | | T | 1 | T 1 | 1 | 1 | 1 | 1 | | | T 1 |
| 10 % 840 | | $\overline{}$ | 1 1 | <u> </u> | | $\overline{}$ | | _ | T | T | 1 3 |
| 99 49 9 49 | | 1 | Т | T | | | 1 | 1 | | | 1 |
| -6 6 70 -0 90 | | | | | | Τ | | | 1 | | |
| 4.5 | 7.1 | 43.9 | 205.0 | 296.5 | 2.7 | 0.1 | | I | | | 100.9 |

| LOAD POE TOR | ł | | | COUNT | .897 44 | - | - | i) | | | 1976 |
|-----------------|------|---------------|-----|-------|---------------|---------------|---------------|---------------|----|---|-------|
| (0g) | 1 | 1 | 196 | 1 | 70 | 13 | *** | 1 | ** | 3 | |
| 10 to 0 00 | | | | | T | T | | | | | |
| | | | | | | | | | | | |
| 8 to 4.00 | | 1 | 1 | | | Γ^{-} | T | T | | | |
| | | $\overline{}$ | | | $\overline{}$ | $\overline{}$ | | | | | Ι |
| 3 10 100 | | 1 | | 1 | 1 | T | 1 | $\overline{}$ | | | Ι |
| 1.6 m.140 | | | | | | Τ | T | | | | |
| 1 | | | 1 | | I | 1 | I . | | | | L |
| 10 944 | | | 1 | 1 | $\overline{}$ | $\overline{}$ | $\overline{}$ | | | | L. |
| 0 10 -0 40 | | | | | | 1 | | | | | |
| 95 % -0.99 | | T | T | 1 | Т | T | 1 | $\overline{}$ | | T | Ι |
| 44.14 | 94.4 | 24.0 | - | 87.7 | 0.1 | 1 | T | | | | 367.8 |

| | | | 411 | t tade : | 35,000 | 10 50,00 | 0 foot | | | | |
|---------------|------|------|-------|----------|--------|----------|-----------------------|-----|-----|---|-----------------|
| LOAD | | | | COUNT | ENT A | | V ₀ 100071 | 1) | | | 1974 |
| 1040 1041 | ** | 100 | 255 | ** | 390 | ::: | 444 | 32 | *** | 3 | - |
| 6.0 10 6 90 | | I | | | | T | I | | | | $\mathbf{L}_{}$ |
| 5.0 TO 5 TO | | | | | | | Ι | I | | | L |
| 4 5 10 4 50 | | | | L | | | ļ | Ι'' | 1 | | 1 |
| 40 10 4 00 | | | | | | L | | Τ | | | 1 |
| 3 5 10 3 00 | | | | | 1 | Ι | | Ι | | | |
| 38 10 349 | | 1 | | | | T | \mathbf{I} | | | L | |
| 1 5 % E PO | | 1 | 1 | | I | | I | 1 | | | 1 |
| 20 10 240 | | L | 1 | | Ľ | | | | | | I. 1. |
| 00 10 -0 40 | T | 1. | I | | Ι | | | T | | | |
| -0 5 10 -0 50 | | T | I | | | | | 1 | 1 | | I |
| PLT THE | 83.7 | 87.0 | 144.5 | 24.4 | | T | 1 | T | | | 217.6 |

| | | | | Leede: | ₩,000 | 10 50,00 | * 5001 | | | | |
|-----------------|---|-----|------|--------|---------|-----------|-----------------------|----|-----|---|-------|
| LOGO FRETOR | | - | | Egundi | .EW7 A4 | R 07000 - | V ₀ 198871 |)) | | | 19744 |
| rac ron (ng) | * | *** | 200 | *** | 1 | 13 | ** | 3 | *** | 3 | - |
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| 4 9 10 4 80 | 1 | I | | | Ι | I . | I | I | | | |
| 40 N 440 | | 1 | 1 | | | 1 | | | | | |
| 3 8 10 3 90 | 1 | 1 | 1 | | Г | 1 | T - | T | 1 | | Ι. |
| 30 10 140 | | | | | I | 1 | | | | | |
| 11 × 10 | | I | Ŧ | I | Ι | Ι. | I | I | Ι | | I |
| 2 9 10 E 49 | Ι | I | | | Ι | | | | | | I |
| 0 0 10 -0 40 | Ι | T | 1 | Ι | I | 1 | I | I | 1 | | |
| -0 5 10 -0 90 | L | | | | T | | I | Ι | Ι | L | Ι |
| PLT TOR | 1 | 1 | 10.0 | 9.4 | 1 | T | T | | | | 19,1 |

Table 13

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission II — Gross Weight Range: 35,000 to 43,000 lb.

| | | | | | | | | | | | | _ | | _ | | | | | | | | | |
|--------------|----------------|----------------|--|-------------------|----------------|--------------------|-----------------------|--|----------------|------------|--|-------------------------------|--|--|-------------|-------------|--|---|--|--|--|-------------|--|
| | | _ | | 4111100 | | 1,000 6 | ••• | | | | | | | | 41 | 111060 | 2.000 to | . 5.000 | teet | | | | |
| 040 6 700 | | | | | | - | (100018 | , | | | | 1043 | | | | | | | V ₆ (#40 ⁷ 5 | 1 | | | - |
| | 190 | 100 | 200 | 340 | 1100 | 1460 | 460 | 3 | 550 50 | 87.2 | TOTAL M m | FACTOR (0) | 100 | 200 | 750 14 | 100 | 350 | 100 | 490 | 100 | 550 | 990 | W 4 |
| | سقب | <u> </u> | | 1270 | - E | ∔ •≅• | _قب | - W | - | 44. | | | _ | | <u> </u> | , 120 | <u></u> | 1 4 6 5 | 489 | 199 | 100 | -11 | _ |
| - | - | - | | | ┼ | + | ├─ - | | - | | - | 5 0 to 5 00 | | | _ | | | - | | | | - | |
| _ | | | | | | 1. | | | | | • | 4 5 to 4 98 | | | | | <u> </u> | 1 | + | 1 | <u> </u> | | <u> </u> |
| | | - | T: | - | 30 | 33 | - | - | _ | | - | 3 9 10 3 99 | | | | | | | 1 | | | | -; |
| | | | 10 | 36 | 113 | 107 | 1 | | , | | 36 331 | 30 10 340 | | - | ├── | 1 | - | - | +. | - - | + | | + |
| Γ | | 1 | 87 | 130 | 265 | 329 | 30 | | | | 797 | 25 % 200 | | | 1 | · | 34 | 14 | 5 | | | | - |
| | | | - | 179 | 594 | ** | 63 | 36 | | | 1037 | 20 4 200 | | - | - | 1.0 | - 87 | 22 | | - | ₽ | _ | - 69 |
| • | | | | | | | | | | | | -0 5 10 -0 06 | | | | | | | | | | | |
| | 34.5 | 133.8 | 1090,9 | 3664.1 | 4353.4 | 4477.0 | 739.2 | 97.9 | 34.9 | | 16409.5 | PLY Years | 0.5 | 10.2 | 133.6 | 837.9 | 019.6 | 244.7 | 42.1 | 1.6 | 0.5 | | 1939.8 |
| | | | | | | | | | | | | . 15-17 | | | | | | | 4 | | 1 | <u> </u> | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| _ | | | | EBUIYA | EWY 41 | 10,000 - 10,000 | V ₀ (MM079 | 1 | | | TOTAL | 1040 | | | - 49 | Edwink! | E#7 A# | 9PEED - | v _e (#19878 | | | | 797AL |
| | 190 | 200 | 300 | 300 | 19 | 400 | *** | 100 | 980 | 3.5 | H 40 | racton (ng) | ** | | 250 | 100 | 100 | *00 | 450 | 900 | 550 | 4 | • |
| t | _ | 1200 | 100 | 100 | +*** | +*** | | - 200- | - | | - | 20 10 5 90 | _ | Tibe | _ | | - | 949 | - | Pée . | | | |
| t | | 1 | | | Ì | | <u> </u> | | | | | 10 - 10 | - | - | | | | <u> </u> | | | 1 | | |
| | | μ_ | \vdash | 1 | $\downarrow =$ | $oldsymbol{\bot}$ | \vdash | | | | | 4 5 10 4 86 | | | | | | | | | | | |
| Ε | _ | + | | + | +- | + | | | | | -:- | 11 10 100 | | | | | | ┼─ | + | | - | - | |
| t | | | - | 1 | | | 1 | | | | 11 | 3.0 14 3.49 | | | _ | | | | 1 | | | | - |
| L | Ξ | - | 10 | | 1 - | | 1 | | | | | 25 - 200 | | | | • | - | 1 | | | | | 19 |
| ł | | + | | 1 | + | | +- | | | | - | 2 0 m 1 m | | _ | - | - | - | ₩ | - | - | - | _ | -12 |
| t | | 1 | | _ | | _ | ! | | | | | 95 9 9 90 | | \vdash | | | | _ | | _ | | | _ |
| Г | 5.0 | w., | 177.0 | 249.5 | 220.6 | 72.4 | 7.4 | 0,8 | | Ţ | 99.6 | PAT THE | 9.6 | 70.7 | 141.9 | 200.0 | 204.6 | 31.0 | 3.0 | | | | 700.0 |
| _ | 415 | 1 411 | 11111 | عنتو ر | | 1 1111 | | | 4 | | | | | | 1.0.0 | 1 447.1- | 1 | 1 27.1 | 7., | | | | 1,00,0 |
| Т | | | | | | 10 27,00 | | <u>. </u> | | | T | | | | Ale | Litudo: | | | 0 Foot | | | | T |
| - | - | 7 | 1 | | | | | | 1 100 | | 197AL | Lace Mc10a Logi | <u> </u> | - | T ide | | | | | | 7 500 | 1 444 | 27 |
| 1 | | 300 | 100 | = | 2 | | 1 | 3 | I | 1 | | (tog) | I | I 🖫 | 12 | * | 1 | *** | 1 🖫 | 3 | 3 | 2.2 | <u> </u> |
| | | | | | 1 | 1 | | | | | | 84 4 6 50 | | | | | | | | | | | |
| 1 | Ξ | \Box | | | $\overline{}$ | T | \vdash | - | ₩- | ₽ | ╌ | 30 % 500 | | | | | <u> </u> | ↓ | | | | | ├ |
| 1 | | + | ┼─- | + | +- | + | +- | +- | + | +- | ┼──┤ | 11 - 10 | — | | ├── | | | + - | + | | + | \vdash | |
| - | | | | | 1 | | 1 | 1 - | | | | 3 5 4 3 10 | | | | | | | | | | | |
| T | _ | Ε | - | 1 | 1 | 1 | | | ₩- | ├ | +++ | 11 - 10 | _ | | | ↓ | - | ↓ | - | | | <u> </u> | |
| - | - | + | +- | + * | + : | +-;- | + | + | + | 1 | | 20010 | + | | - | - | - | + | + | | | | 16 |
| Ŧ | = | | | | | | | | | | | 11 = 10 11 = 10 11 = 10 | | | | | | | | | | | |
| L | _ | | | Τ. | _ | _ | 1- | - | + | ∔ | | ***** | _ | | | | - | ļ . | ↓ | ├ | | _ | _ |
| 1 | 4.2 | 144 | محدا | وبعدا | | سا | | | ┸ | 1 | Tears 1 | 7.72 | ٠., | 26.6 | 875.4 | 247.4 | 47.5 | 3.9 | <u> </u> | Щ. | <u> </u> | | 783.9 |
| _ | | | | <u> Ledoudo</u> : | | <u> </u> | | | | | T1 | | | | | 14 Seele - | | | | | | | · |
| | | | | Boye | 4 | | 4 | | 7 | V /48 | === | 1,000 TOC TOD | <u> </u> | | 1 4/- | 000000 | | | V ₀ (mile) | | T 122 | - 124 | - |
| Г | Ť | 7 | 300 | 7 | T | 1 | II | TI | II | 1 | 1-21 | (0,1 | 3 | T | 2 | = | 2 | *** | T | * | 3 | Ξ | |
| + | - | ┿┻ | +** | += | 1 | 1 | | | | | | 40 4 4 10 | | | | | | | | | | | |
| Ŧ | _ | 1 | \perp | 1 | 1 | \mathbf{I} | | | | | | 60 % 530 | | | | = | = | = | Γ | = | | | \vdash |
| 1 | _ | \blacksquare | _ | _ | + | + | + | +- | + | +- | +- | 40 0 400 | ├ | - | ├ | + | + | + | + | + | | | + |
| 2 | - | +- | + | +- | + | 1 | + | 1 | 1 - | 1 | | 33 4 3 | t_ | | | | | \perp | 1 | | | | |
| į | t | 1 | | | | | | | | | | 10 to 10 10 to 10 | | | | lacksquare | - | \vdash | | Ι | | F- | - |
| | | | \blacksquare | Τ. | 1 | | | - | - - | _ | - - | 25 4 100 | — | | - | ⊢ • | | +- | + | + | + | | |
| į | | | - | 43 | т. | +- | +- | + | +- | +- | + - | 11 - 14 | - | - | | _ | - | + | +- | | | _ | |
| Н | | +- | + | +- | + | 1 | | 1 | \perp | | | 43 * 4.00 | | | | <u> </u> | 1 | | 1 | | | | |
| | | Tp. 6 | 100 | - | Tas | T | T | Т | | T | 2004 | 87.4 | 7.7 | 130.0 | 100.6 | 73.7 | Lak | | | | | | 989.9 |
| | 1 6,7 | <u> [56.6</u> | | 1 204.7 | | | | 1 | J | <u>.l.</u> |] 50-11 | | 1 3.3 | 1 120-10 | | 1 73.3 | | | | <u> </u> | <u> </u> | · | 1 |
| - | _ | | | | | - | | Bh | | | | | r | | | 000 | | | V ₀ (4887) | 11 | | | |
| ŀ | - | - | 120 | 1 | T | 12 | 1- | 1 44 | | TE | 374 | 1000 | - | | 1 886 | 1 | 120 | 148 | T 444 | | - | T# | 37 |
| ı | I | TI | II | II | Ţ | II | I | 13 | | II. | <u></u> | togs | | 3 | I A | 1 | 12 | قا | 1 | 3 | | I | |
| 5 | | 1 | | | | 1 | | | | | | 80 70 00 | | | | | | \Box | $\downarrow =$ | = | 1 | | |
| į | | J | \perp | — | Ţ | _ | \vdash | F | + | — | \vdash | 80 - 10 | _ | 1 - | | - | | +- | + | +- | + | | +—¨ |
| H | \vdash | + | + | + | +- | +- | + | + | + | + | + | 48 % 480 | | | | t | t - | 1 - | 1 | 1 | <u> </u> | | <u> </u> |
| н | | | _ | | | | | | | +- | | | _ | _ | _ | _ | _ | _ | | 7 | _ | | 1 |
| • | _ | \perp | | \mathbf{I} | | \perp | 1 | | | | | 3.6 10 100 | | | | + | | + | + | | + | | |
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| | | \equiv | Ę | | E | ŧ | E | | Ē | Ħ | | 11 - 10 | I | | | | | Ē | Ē | | Ē | | 1 |

Table 14

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission II — Gross Weight Range: 43,000 to 51,000 lb.

| | | | | - | | · · · | | , | | | 1074 |
|----------------------------|-----|------|-------|--------|--------|--------|-------|-----|---|---|--------|
| METON (H _d) | T | 1 | ** | 1 | 1 | 3 | | 3 | 2 | 1 | = 5 |
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| 14 9 8 | | | | | | | | | | | |
| 43 % 4.80 | | | | | | | | | | | |
| 40 9 440 | | | | | | | | | | | |
| 10 10 | | | | Ι | | | | | | | |
| J 10 14 140 | | | | 13 | | | | | | | 4 |
| 10 9 149 | | | 1 1 | | | | | | | | 184 |
| 1 4 14 | | | 1.1 | | | 111 | | | | L | . me |
| 10 9-0.00 | | | | | | | | | | | |
| 10 40 -0.00 | | | | I | | | | | | | |
| 17.74 | 7.4 | 99.1 | 444.1 | 3306.6 | 2360.0 | 1004.7 | 201.0 | 2-9 | T | | 4003.0 |

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| 3 5 4 3 49 | | | I | | | | | Ц | | | |
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Table 15

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission III — Gross Weight Range: 27,000 to 35,000 lb.

| | 1 | Alti | tud | e – | - M | iss | ion | III | _ | Gr | 088 | Weight | Ra | ng e | : 2 | 7, 0 | 00 | to 3 | 35,0 | 000 | ΙЪ. | | | |
|-------------------------------|-------|------------------|---------------|---------------|--------------------|----------|--|--|--|--|--|--|--|----------------|--------------|------------------|--------------|--------------------|-------------------------------------|--|------------------|--|--------------|---|
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| L0A8 40700 | | | | | EW1 AM | 940 · · | . (04075) | | | | 1974L | oldab Fact os (b _p) | | | | | | | ((COO) | 4 | 635 | 400 | TOTAL | į |
| 100 | 190 | 200 10 240 | 100 | 300 | 150 | *** | *** | 25 | Ξ | Ŧ. | | (0)1 | 190 | 200 200 | 100 | 3:3 | 2-4 | 100 | 440 | <u></u> | Ξ | - | * • | |
| * | | | | | | | | | | | | 60 10 6 90 | | | | | | | | | | | | |
| 99 | | | | | | - | | | | | + | 4 6 10 4 00 | | | | | | ├ | } | | ┯┪ | | | |
| ** | | | | _ | - | + ; | , | | | | 3 | 4 0 10 4 40 | | | | | | | | | | | | |
| 3 90 | | | | - | • | 1 | 1 | | | | 19 | 3 5 10 3 80 | | | | | +- | 1 | | | | | | |
| 14 | | , | 10 | 35 87 | 33 | 16 | + | - | | | 234 | 25 14 286 | | | | - | 16 | 1 : | 1 3 1 | - | | | - # - | |
| | | 10 | 39 | 110 | 136 | 13 | • | | | | 222 | 10 10 -0 40 | | | - | 14 | = | 14 | | | | | ü | |
| 44 | 1 | | | | | - | _ | | | - | | 7 3 10 -0.00 | | - | | - | | | | | | | <u> </u> | |
| • • | 431.9 | 746.8 | 1168.9 | 414.4 | 730.2 | P01.0 | 30.2 | 9.3 | 4.5 | | 4233.4 | | 11.5 | \$7.0 | 210.0 | 751.0 | 205.0 | 41.4 | 17.3 | 3.0 | | | | |
| - | | | | | | . 10,000 | foot | | | | | | | | | 112 tede | | 10 15,0 | | | | | | |
| 100 | | - | | COUNT | | | , (me)*S |) I des | 888 | - | 777AL | 1000 760 700 | 100 | 100 | 200 | 100-WA | 300 | 400 | 490 | 1 100 | 500 | 900 | 1914. | |
| 7 | 1 | 300 | 100 | 50 z 5 | | *** | 400 | 100 | LE_ | | | 10,1 | <u> </u> | 4 | 1 | 1 | - | 1000 | 100 | 1 | <u> </u> | عقع ا | | Į |
| • * | | | | | | | | | | | | 9 10 0 00 10 to 100 | - | + | + | - | + | + | + | ┼ | + | + | - | 1 |
| ** | 4 | - | | ₩ | + | + | | | | | t | 4 9 10 4 90 | | \pm | | 1 | | \pm | <u> </u> | | _ | | 1 | |
| 4 4 | •1 | | | | | 1 | | | | | 1 | 4 5 10 4 00 | Γ | \perp | 1- | + | += | 1 | 1- | | + | - | T . | ļ |
| | | | | | | - | F. | - | | - - | 10 | 3 5 10 3 00 | + | + | + | + | +, | , | + - | + | + | +- | +; | 4 |
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| 4 | • | | | i | 10 | Ţ, | | | | | 23 | 0 0 10 0 40 | | 1 | | 1. | | - | +- | + | + | + | - 4 | |
| | 9 | | \vdash | - | - | +- | | | | | \pm | -0 5 10 -0 90 | | <u> </u> | 1 | _ | 1 | 土 | 士 | | | 1 | | |
| - | 2.1 | 26.4 | 140.) | 212.4 | 139.0 | 39.7 | 7.7 | 2.5 | | | 607.6 | 747 Tamb | | 22.2 | 205.2 | 263.9 | 150. | 3 81.1 | 15.3 | Ι | | | 643.9 | 1 |
| | 196 | 1 200 | | - | 15,000 t | 400 | 7001 70 (88678 | , I 600 | | | 101AL | LOAD | 160 | 1 200 | | | LEST 4 | | V ₀ (0007) | | 1 100 | T 660 | 707AL | 1 |
| | 190 | 100 | *** | 3 | 1 | 100 | - * - | -110 | - | 4 | - | 10.1 | - | +4 | 2,500 | *** | *** | 100 | 3 | = | 1 | 2. | 1 7 | Į |
| | ·1 | | | | | | | | | | - | 50 10 500 | Ι | 1 | 1 | 1 | 1 | | 1 | | | | | J |
| | 1 | | — | 1 | - | - | | <u> </u> | - | | | 4 1 14 4 60 | | | + | - | - | _ | 4 | _ | + | | | ļ |
| | - | ┼ | | | 1 | 1. | <u> </u> | | | | , | 2 5 10 250 | Ι | 1 | | 1 | 1- | + | | | | 1 | 1 | ı |
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| ī | 9 | | | | Π. | 1 | 1 | | | | | 00 10 -0 40 | 1 | 1 | 1 | | | 1 | 7 | Ţ | 1 | - | 1 | Ì |
| • | × | Τ | - | - | _ | - | | | | - | | -05 10 -0 00 | _ | +- | ₩ | + | - | - | + | ╄ | + | ₩ | | Ì |
| _ | 8.4 | 169.9 | 180.5 | 240.0 | 86.6 | 25.0 | 3.6 | ـــــ ا | ــــــــــ | <u> </u> | 1120.9 | 0.1 | 9.3 | 349-4 | 983.5 | 407.4 | 155.9 | 37.5 | Ц | <u> </u> | 1 | <u> </u> | 1308.7 | J |
| 10 m | * | | 800 22 | Course See | 33,000 4,007 A4 | 10 p.m | v _q (8807) | <u> </u> | * | 3. | 70 TAL | 1000 100700 10 ₉ 1 | - | T E | T <u>e</u> | Courte See | | 10 31.4 1000000 | 100 fees - V ₄ (IMDT) | <u>"</u> | 1 22 | - I S. | TOTAL OF S | 1 |
| • • • | | | \vdash | 1 | \perp | | \vdash | - | - | + | + | 10 10 10 | + | + | + | + | + | + | + | + | + | + | + | |
| # | | + | +- | + | +- | + | + | | \vdash | <u> </u> | ! | 10 7 10 | L - | \pm | \pm | $\pm -$ | $\pm -$ | \pm | _ | <u> </u> | \pm | <u> </u> | _ | 4 |
| 44 | 40 | 1 | 1 | 1 | \perp | | 1_ | | | 1 | | 100 m 000 | | \perp | \downarrow | \Box | \downarrow | \bot | \perp | | 1 | | | 1 |
| | | | \vdash | Τ. | + = | Τ | \leftarrow | - | + | + | -1- | 10 11 140 | 1 | - | +- | +- | + | +- | + | - | - | - | + | Į |
| H | | + | + | ++ | +- | \pm | - | \pm | <u> </u> | \pm | <u>i</u> | 1 11 1 1 1 1 | $\overline{}$ | \pm | 1 | 1. | ± | $\pm -$ | 1 | 1 | <u> </u> | <u> </u> | 1. | 4 |
| 1 | 70 | 1 | II | Ţį. | Ιį | 1 | | _ | | | 17 | 11 = 19 | | \blacksquare | 1 | | I | | | | | <u> </u> | 14 | j |
| 3 | 2 | - | 7 | _ | | | \vdash | + | + | | + | # * * * * | 1 | \vdash | + | \vdash | \vdash | + | - | \vdash | + | \vdash | - | 1 |
| | * | + | 1 | | 1 | 10.0 | 1 | + | _ | | 1100.1 | AT 198 | 87.9 | 1 | 1110. | ٠ أ | 3.7 | +- | 1 | t | + | 1 | 1999.4 | 4 |
| T | ٠., | 79.2 | 376.9 | 944.6 | 23.6 | 1 8,0 | | | | | 1 | للجهريا د | 7.3 | 1 | 1 .415. | 6 283.4 | 1 3.7 | | | 4 | ٠ | | 1 :777.4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 10,00 | | | | | _ | | , | | _ | يمارهمادة | - | محبب | - | | | | _ | |
| 40 700 1 ₀ 1 | | | | 5007 | | | · V ₆ (1000) | | T 86- | 1 | - 374 | neros | <u></u> | T == | 1 664 | | | - | V ₀ (ma)** | | T | T 14- | 37A | |
| ï | . 3 | 3 | 100 | 1 | 12 | 3 | * | 3 | 2 | 3 | 1 - 2 | 1001 | II | 12 | 7 | 1 22 | 2 | I | II | 3 | 1 | 3. | 1 | |
| | * 1 | 1- | | 1 | ┰ | | I | | | | | **** | | | | I | | | | | | | T | • |
| ١ | # | 1 | \perp | _ | 4 | 1 | 4 | \top | _ | 1 | + | ***** | | - | | - | ļ. | 4 | | | $ldsymbol{\Box}$ | | \leftarrow | |
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| • | 99 | + | +- | | +- | + | | <u> </u> | | | | 10 10 140 | | 1 | 1 | 1 | 1 | 1 | 1 | | + | | 1 | • |
| : | 40 | | | \pm | \equiv | \pm | = | \equiv | | \equiv | | | | 丰 | = | 丰 | \pm | = | = | E | = | E | | |

Table 16

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission III — Gross Weight Range: 35,000 to 43,000 lb.

| | | | | | | | | | | | | _ | | | | • | 144 00 00 | | | | | | |
|---|------------------|---------------|--|--|--|---|--------------------------------|--|---|--|---|--|--|--|--|--|--|---|--------------|---|-------------|--|---|
| 1040 ME 100 | | | | COUNCL | | | V ₀ (100)70 | 1 124 | | | 79744 | | 700 | L., | | | | | -000 | 4, 100 | 01 T 222 | | |
| 10,1 | | 2 | ** | <u></u> | 1 | *** | 1 | I | I | 3. | •• | 7 | •,5 | I | 1 | E | I | I | II | I | 12 | I I | 1 E. |
| 10 6 90 | - 1 - | _ | _ | | | 1 | | | | | | 6.0 | | | I | | | | | | | 1 | |
| N 5 90 | | | | | | | | | | | | 9.0 | | | | | | | | | | 1 | |
| 10 4 90 | | | | | 1 | + - | - | ₩- | - | | | | 48 | | | | ₩ | | + | + | + | ·¦ | ļ |
| 10 1 40 H | | -+ | | • | + : | 1 12 | + | + | ├ | | 17 | 11 | 9 140 | | | + | 1 | + | + | + | + | | + |
| 10 140 | _ | - | | - 25 | 1 83 | 1 30 | 1 7 | 3 | _ | 1 | 186 | 3.0 | 10 | | | | | - | 1. | | 1 | 1 | 1 |
| - 100 | | | 15 | 314 | 164 | 147 | - | | | | 1444 | 8.5 | . 18 | Ι | | 7 | 1 3 | 3 | 39 | , | | .1 | 1 |
| 10 8 00 | | | - 69 | 214 | 821 | . 99 | 1 (4) | 1 | | | 613 | | - 14 | | | | <u> </u> | | L. | 1. | | | |
| 10 -0 00 | | | | | | 1-1 | $\overline{}$ | Ţ | \bot | | 1- | 9.0 | • • • | - | | - | ₩ | | - | + | +- | - | - |
| 10 -0.00 | _ | - | _ | _ | - | - | + | + | | - | | | 4 -0.00 | | - | <u> </u> | | + | } | + | + | +- | - |
| , | 9.7 19 | 4.5 | 707.4 | 3394.5 | 9786 - I | 1809. | 204.6 | 3.0 | 0,3 | <u> </u> | 4060.9 | | Ι | 11.5 | 49.1 | 44.1 | 1150.0 | 770.4 | 100.0 | 14.7 | 9.0 | 9.8 | ┸ |
| | | | | | | | | | | | | | | | | | | | | | | | |
| T | | | | term. | 3,000 to | | Tees V ₀ (400)70 | | | | WIAL | | | | | | 100mmi | | | Ng same | 101 | | |
| 100 H | • T # | * | 800 T | 334 | T | 466 | 124 | 100 | 444 | 490 | 3.5 | * | 766 4 ₉ 1 | 100 | 1 660 | 1 866 | 1 885 | 1 880 | 140 | 140 | 7 666 | 1 444 | 1 86 |
| (04) | أأسل | ٠ ا | * | 7. | 3 | 1 44 | I | 3 | Ĭ. | 3. | | L ' | 4,1 | 1.5 | 1 | <u> </u> | E | | 14 | 15 | 1.5 | 12 | E |
| 10 8 90 | | \Box | | | | | | | | | | | | | | | | | | | I | | |
| W 0 00 | | _ | \exists | | | - | + | - | | | \vdash | 9.0 | 1 10 | | | ļ | Ţ | - | - | - | _ | - | - |
| 19 4 80 | | | | | | + | + | + | ├ | | | 100 | | - | + | + | + - | +- | +- | + | + | + | + |
| 10 100 | -+- | -+ | | | | t - | | | | | | | 100 | | + | + | + | + | + | +- | +- | + | + |
| 10 100 | | ightharpoonup | | | 1. | L | I | | | 1 | | 56 | - 10 | | | | 1 | | İ | | 土 | | |
| * 149 | | | - | | | 1.5 | 1 | \vdash | | | - | 39 | . 140 | | | | 10 | | 11 | \Box | \bot | \bot | |
| 9 149 | | _ | | # | - | - | +- | + | _ | | | 3.0 | . 14 | | - | 1 | غب | | 1 | + - | +- | 4 | + |
| 10 -0 60 10 -0 00 | - | -+ | | | + | +- | + - | 1 | | | - | 20 | • • • • • • • • • • • • • • • • • • • | - | + | ┿ | +- | + | +- | + | +- | + | + |
| | . † . | 4.0 | | 44. | 301.7 | 93.6 | 6.0 | 1.2 | _ | 1 | 1300.9 | 4 | | | - | 1 | 1 | 1 | + | + | + | + | + |
| | ., 1 | I. | | | ,, | 1 34.5 | 1 | | | - | لتتت | عت ا | Γ. | 1 3.6 | 26.5 | 204.0 | 785.4 | 24.0 | 13-9 | 1 1-3 | | | 1 |
| | | | 444 | nador | 15,000 | | o deget | | | | | | | | | 444 | Mando: | w.ee | u.a | • fron | | | |
| 270. | - T | | | Source. | 35,000 1 807 Ad | | | • | - | | 77°4. | 1 | *** | -80 | | 441 | | 9,000 97 40 | | * (***** **, ******* | T 722 | 940 | |
| | | | | | | | | 3 | <u> </u> | I . | 37°¢ | <u>_</u> | ,6, | ** | # | *** | | | | | ĪΞ | - - | 5 |
| * * ** | | | | Source. | 1986 | | | • | <u></u> | 3 | 797AL 80 % | ••• | • • • | ja j | 30 | 100 | ROUTEN. | | | | T 722 | " | 5. |
| * * ** | | | | Source. | 1986 | | | • | <u>*</u> | 3. | WITH W | 0.0 | 4 90 5 90 | ** | ## # | 150 | ROUTEN. | | | | T 722 | = | 3. |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | | | | Source. | 1986 | | | • | <u> </u> | <u>z</u> | WTAL SS Sy | 00 0 00 0 00 0 | 100 | 3.4 | 34 | # 100 22 | ROUTE. | | | | T 722 | | 5. |
| 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | Source. | 1986 | | | • | # <u>*</u> | | • | 00 0 00 0 00 0 00 0 | 4 80 4 80 4 80 | I | 35 | 300 300 300 300 300 300 300 300 300 300 | ROUTE. | | | | T 722 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | <u>5.</u> |
| 10 0 00 10 1 00 10 1 00 10 1 00 10 1 00 | | | 140 12 | Source. | 1300 1300 1300 1300 1300 1300 1300 1300 | 3 | | • | 9 | ************************************** | | 08 9 00 9 08 9 0 9 | 100 | | <u>::</u> | 190 | teurna. | 150 | | | T 722 | 300 | 5. |
| 10 0 00 10 100 10 100 10 100 10 100 10 100 | | | | Source. | 1007 44 1000 1000 1000 1000 1000 1000 1000 1 | 44 | | • | <u></u> | ************************************** | 15 | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 | 100 | \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | *** | ## ## ## ## | ROUTE. | 1 | | | T 722 | 2 | 5. |
| 10 6 60 10 5 60 10 6 60 10 1 60 10 1 60 10 1 60 10 1 60 10 1 60 | | | 140 12 | Source. | 1300 1300 1300 1300 1300 1300 1300 1300 | 3 | | • | 9 | 2. | | 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 | 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 | 100 | 55 | 100 | teurna. | 150 | | | T 722 | ************************************** | 2. |
| 10 6 60 10 5 60 10 6 60 10 1 60 10 | | | 140 12 | Source. | 1007 44 1000 1000 1000 1000 1000 1000 1000 1 | 44 | | • | <u></u> | | 15 | 100 to 10 | 1 100 1 100 1 100 1 100 1 100 1 100 1 100 | | ## | 100 | teurna. | 1 | | | T 722 | 2 | 2. |
| 10 0 00 10 10 0 00 10 0 00 10 10 10 10 1 | | | | 100 | 300 | 1 | | • | <u></u> | | 15 | 00 1 00 1 01 1 01 1 01 1 01 1 01 1 01 1 | 0 0 00 0 0 0 00 | | | *** | 100 mg | He had | 3 | | T 722 | ************************************** | 5. |
| 10 0 00 10 1 00 10 0 00 10 1 00 | | | | 100 | 1007 44 1000 1000 1000 1000 1000 1000 1000 1 | 1 | 30 | • | # <u>*</u> | 2 | 10 % 10 12 | 100 to 10 | 0 0 00 0 0 0 00 | | 30.7 | ************************************** | teurna. | 1 | | | T 722 | - | 5. |
| 10 0 00 10 10 10 10 10 10 10 10 10 10 10 | | | 640 020 030 030 030 030 030 030 030 030 03 | 6 7 943.2 | 300 50 50 10 1 1 1 1 1 1 20 2,4 | 1 1 1 23.4 | 0.4 | 3 | 2 | | 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | - 0 00 - 0 00 | | | ************************************** | 100 mg | 1 | 31.2 | *************************************** | 3 | 3 | 5. |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | | | # 4 4 56 12 1164. b | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4.9 | 60.7 | | 200 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 7.6 | 640 29 30 31 31 696.7 | \$000max \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$0 | 300 50 50 10 1 1 1 1 1 1 20 2,4 | 1 1 1 23.4 | 0.1 | 3 | <u> </u> | \$. | 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | ************************************** | 500-00 70 70 9 9 9 9 | 1 | 31.2 | - Count | 3 | 2 | |
| to 0 00 to 5 0 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | 50 9 | 3. | # 4 4 56 12 1164. b | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 | 4.9 | 60.7 | | 200 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | ## A Part | 3. 3. | # 4 4 56 12 1164. b | 00 to | - 0 00 - 0 000 - 0 00 - | 4.9 | 60.7 | | 200 | 1 | 31,1 | - Count | 3 | | |
| 00 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | 640 9 | 24 A | # 4 4 56 12 1164. b | 00 to | - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 000 - 0 00 - 0 00 | 4.9 | 60.7 | | 200 | 1 | 31,1 | - Count | 3 | | |
| 00 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | 100 <u>2</u> | | # 4 4 56 12 1164. b | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 191 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4.9 | 60.7 | | 200 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | 646 2 2 | 600 201 | # 4 4 56 12 1164. b | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 4.9 | 60.7 | | 200 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | 500 50 50 50 50 50 50 50 50 50 50 50 50 | 000 201 | # 4 4 56 12 1164. b | 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 4.9 | 60.7 | | 200-100 100 100 100 100 100 100 100 100 1 | 1 | 31,1 | - Count | 3 | | |
| 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | \$000 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$0 | 300 Add Add Add Add Add Add Add Add Add A | 1 | 0.1 0.1 | | 500 500 500 500 500 500 500 500 500 500 | | 100 as a second | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | 4.9 | 60.7 | | 200-100 100 100 100 100 100 100 100 100 1 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | 500 min. 1 trado: 2 t | 27, 000 27, 000 27, 000 | 1 | 0.1 0.1 | | 100 | 000 200 200 200 200 200 200 200 200 200 | 00 0 ₀ | 00 10 10 10 10 10 10 10 10 10 10 10 10 1 | | *** | 60.7 | | 0000000 100 100 100 100 100 100 100 100 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | ., | 19.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | 500 min. 1 trado: 2 t | 27, 000 27, 000 27, 000 | 1 | 0.1 0.1 | | 100 | 33 A | 00 0 ₀ | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | *** | 60.7 | | 0000000 100 100 100 100 100 100 100 100 | 1 | 31,1 | - Count | 3 | | |
| 10 0 00 00 00 00 00 00 00 00 00 00 00 00 | | 7.6 | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | 500 min. 1 trado: 2 t | 300 100 100 100 100 100 100 100 100 100 | 1 | 0.1 0.1 | | \$60 2 | | 00 0 ₀ | 00 10 10 10 10 10 10 10 10 10 10 10 10 1 | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | *** | 60.7 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0000000 100 100 100 100 100 100 100 100 | 1 | 31,1 | - Count | 3 | | |
| Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 7.6 | 100 19 19 19 19 19 19 19 19 19 19 19 19 19 | \$0000000000000000000000000000000000000 | 300 100 100 100 100 100 100 100 100 100 | 1 | 0.1 0.1 | | 500 | | 00 0, 0 0 36 13 1160 0 00 0, | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3.9 | 8.7 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 9 39 0 100 100 100 100 100 100 100 100 100 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 31,1 | - Count | 3 | | |

| | r | | | Eleviron. | | | V ₀ (689) | | | | $\overline{}$ |
|-------------|------|------|------|-----------|----------|----------|----------------------|----------|----------|----------|---------------|
| 10g) | 1 | 1 | 200 | | 3 | 12 | 1 | 2 | 2 | 2. | 10 TAL |
| 40 ** 0 90 | _ | | | | | 1 | | I | 1 | | |
| 10 - 10 | | Ī | | | | | | | | 1 | L |
| 4 6 10 4 90 | | | | | | | 1 | | | | |
| 4 0 to 4 40 | | T | | | 1 | | | | I | | |
| 11 10 100 | | | Ι | \Box | <u> </u> | | 1 | | | | |
| 3.0 10 100 | | | I | | | <u> </u> | | | | | |
| 2 9 W 2 00 | | | | I | <u> </u> | | <u> </u> | | <u> </u> | | |
| 20 10 2 00 | | L | Га | | | 1 | | | | | |
| 89 6 9 99 | | | | | | | T | | | - | |
| -01 90 | | | | Ι | <u> </u> | | | <u> </u> | | _ | |
| 71.7 | 93.3 | 69,6 | 70.3 | 72.6 | L | | 1 | | | <u> </u> | 500.2 |

| | | | | 499501 | 10,000 | <u> yə,cə</u> | Post . | | | | |
|----------------|------|-----|------|--------|--------------|---------------|--------|---------------|-----|----|------|
| LOGO | | | | - | | | ٠, | D) | | | 1974 |
| POCTOR (Pg) | 1 | = | 100 | 1 | 1 | 3 | 3 | 1 | *** | 3, | 44.0 |
| 8.0 10 0 90 | | | 1 | | 1 | I | | Τ | | | |
| 80 m 800 | | | | | | | | | 1 | | |
| 4 5 10 4 50 | | | 1 | | 1 | I | 1 | $\overline{}$ | | _ | |
| 40 10 440 | | | | | | | | T | T | 1 | |
| 35 10 310 | | I | | | 1 | | | L | | | |
| 30 10 340 | | | | | \mathbf{I} | I | L | Ι. | | Ι | |
| 1.5 = 1.00 | | | | | | L | 1. | | | | |
| 20 10 140 | | | | | | I | Ι | 1 | I | | |
| 0 0 10 ·0 06 | | | | | | 1 | 1 | T | I | | L |
| -0 5 10 -0 50 | | | | | | | L | | | | |
| 41 100 | 34.9 | 0.0 | 11.0 | | I | | | I | | | 39.1 |

Table 17

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission III — Gross Weight Range: 43,000 to 51,000 lb.

| LOAD | <u> </u> | | | ESUIVAL | CMT 44 | PPCCD : | | ı | | | . 7074 |
|-------------|----------|---|-------|---------------|--------|--------------|-------------|--|-----|-----|-----------------|
| 1921 | 190 | 200 | 250 | 149 | 110 | 400 | 490 | 100 | 350 | 600 | • • • • • |
| 60 '0 6 90 | 1 | | | T | , | , | | | | | - |
| 5 0 10 5 00 | T | 1 | | | | | + | | | | |
| . 5 10 4 99 | - | , | | | | - | | | | | |
| 4 0 10 4 49 | | - | - | | | 1 | + | | | - | - |
| 1 1 10 3 90 | + | 1 | - | 1 | _ | - | | •— | | | **** |
| 0 10 149 | | 1 | | 1 | 1 | | | | | | |
| 19 10 2 99 | | 1 | | | 111 | | | | | | 10 |
| 2 0 4 2 49 | | 1 | 1 | 10 | | 1.0 | | | | | |
| 0 0 49 | | 1 | | _ | 1 | _ | | | | | - /` |
| 9 10 -0 99 | | i i | | $\overline{}$ | - | | | | | | • |
| A.T. THE | 10.7 | | | - | | _ | - | | | _ | - |
| 1985 | 10.7 | 107.5 | 114.4 | 323.0 | 176.1 | 202.0 | 11.6 | | | | . 1101.4 |

| LOAD | | | | COUNTRY | 107 AN | - | , (au)** | 13 | | | 7974 |
|-----------------|-----|-----|------|---------|---------------|------|----------|---------|-----|-----|--------|
| PACTOR 1 mg1 | 190 | 200 | 2640 | 100 | * | *** | *** | 100 | 100 | 449 | 44.5 |
| 40 10 6 90 | | Γ | | | | | | L | | | |
| 50 to 5 90 | | 1 | | | | | | I | | | I |
| 4 5 10 4 90 | | T | | 1 | | | | L | | | |
| | | | | | | | | I | I | | Ι |
| 3 1 10 3 90 | | | Ι | T | L | I | L | I | | | |
| 30 10 340 | | | | | | | | | I | | |
| 25 m 5 m | | | | 1 | 10 | | | L" | | | 14 |
| 2 7 40 2 40 | | | T | | 1 1 | | | \perp | Ι | | 1 10 |
| 00 40 -0 49 | | T. | | T | | | I | \perp | | | \Box |
| 0 5 '0 '0 90 | | I | | T | | | | I | | | |
| PLT THE | 4.1 | 7,1 | 24.0 | 130.0 | 180.1 | 40.4 | 3.6 | | T | | 425.9 |

| LOAD | | | | EBUINEL | E47 449 | ****** | . 154075 | 1 | | | 79744 |
|----------------|--------------------|------------------|--------|---------|---------------|---------------|----------|-----|-----|-----|-------|
| facton (Pg) | 1940 16 1880 | 200 10 240 | 250 | 100 | 110 | 400 | 490 | 100 | 550 | 600 | 20 0 |
| 60 10 6 90 | | | | | 1 | | | T | | | |
| 5 D 10 5 90 | | $\overline{}$ | | | $\overline{}$ | | | | | | 1 |
| 4 5 10 4 50 | | | | | | | | | | | 1 |
| 4 0 to 4 40 | | | | | 1 | | | 1 | | | |
| 3 7 10 3 90 | | _ | | T | | | | 1 | | _ | |
| 0 10 340 | | - | | | _ | | | 1 | | | 1 |
| 2 5 10 2 90 | | | | | 1 | | | • | | | • |
| PC '+ 2 48 | | | 1 | 1 | 1 | | | | | | |
| C 70 - C 49 | | _ | | | | | | | _ | _ | |
| D \$ 10 C 66 | Ι | | 1 | 1 | | 1 | | | | | 1 |
| TAT TOME | 6.6 | 10.2 | . 39.1 | -11.1 | 180.5 | 21.0 | 9.7 | | | | 464.2 |

| | | | - 44 | 4000 | 10,000 | o 15,000 | foot | | | | |
|-----------------|-----|---------------|---------------|-------|---------|----------|----------|-----|---|-----|-------|
| 1000 | | | | - | A-1 A-0 | • | , (min/) | 11 | | | TOTAL |
| Pac Ton (Pg1 | 224 | 320 | 290 | T | 3 | 13 | * | 3 | 3 | 300 | 4.5 |
| | | | | | | | | L . | | | |
| 14.9 19 | | $\overline{}$ | $\overline{}$ | Γ | Γ | | | | | | |
| 4.5 10 4.86 | | 1 | | | | | | L | | | |
| 40 9 40 | _ | T | T | | | | | Γ | | I | L |
| 5 0 % SM | | | | | | | | L | | | |
| 3.0 to 3.00 | | | | | | | | | | | |
| 2.6 - 2.00 | | T | Γ | T 3 | | | | Ι | | | |
| 10 . 14 | | T | 1 3 | Ι | | | | Ι | | Ι | , |
| 80 5 5 60 | | | _ | | | | | | | Ι | |
| 9.0 10 9.00 | | | | | | | | | | | |
| AL 19 | | 3.3 | 100,6 | 300.4 | 203.3 | 30.7 | | | | | 742.1 |

| LOAD | ! | | | Equival | .647 649. | SPEAN . | v _e (# 106 11 | 31 | | | TOTAL |
|----------------|-----|-----|-------|---------|---------------|---------|---------------------------------|---------------|-----|---------------|-------------|
| F4C*DR 10g) | 190 | 200 | 250 | 100 | 130 | 400 | 450 | 100 | 990 | ti. | - |
| 60 10 E 99 | . – | T - | ! | 1 | ī | T | | Τ | | | + |
| 3 D 10 3 80 | | | | | | | | 1 | | | |
| 4 5 10 4 50 | | | - | | | | - | 1 | | | |
| 0 0 10 4 49 | | 1 | ! | _ | 1 | | | 1 | | | 1 |
| 3 5 10 3 90 | | 1 | | | | | | | | | |
| 30 10 340 | | _ | | | | | | | | $\overline{}$ | + |
| 15 m 200 | | _ | · | | $\overline{}$ | | | | | | |
| | | | | | - | | | | | | |
| 9 0 10 -0 49 | | | _ | | _ | | | $\overline{}$ | _ | _ | _ |
| | | | 1 | | - | 1 | 1 | 1 | | | 1 |
| PLY THINE | | 3.9 | 214.3 | 319.3 | 176.0 | 3.3 | | | | _ | 619.4 |

| Less | | Courte, Det - Address - V _a (18875) | | | | | | | | | | | | | | |
|----------------------------|---|--|-------|-------|-----|--------------|--------------|--------------|---|----|--------|--|--|--|--|--|
| MCTON (0 ₂) | = | 100 | 290 | 2 | 3 | 3 | 3 | 3 | 3 | 33 | 791AL | | | | | |
| | | 1 | | | | | Ι | Γ | | | i – | | | | | |
| | | | | | Ι | | | \mathbf{r} | Ι | | | | | | | |
| ** 545 | | | | | I | | I | | | | | | | | | |
| 40 - 44 | | \Box | | | | | T - | | | I | | | | | | |
| 11 1 300 | | | I | T | | 1 | \mathbf{I} | T | I | | Г | | | | | |
| 5.0 PO \$40 | | | | | | \mathbf{I} | | | | | | | | | | |
| 2.5 - 2.50 | | T | | | Ι | | 1 | Γ | | Ι | | | | | | |
| 10 - 14 | | T | | | Ľ | I | 1 | I | | I | \Box | | | | | |
| 14 - 10 | | | | | | 1 | | 1 | | 1. | | | | | | |
| ** ** ** | | \mathbf{I} | | | | \mathbf{L} | Ι | I | | | | | | | | |
| 11 | | 80.3 | 100.0 | 549.5 | 8.4 | T | T | 1 | | | 841.7 | | | | | |

| | | | 44 | Li tudo i | 30,000 | 10 33,00 | • feet | | | | |
|----------------|------|-------|-----------|-----------|-------------|-------------|-----------|-------------|-------------|-----|--------|
| 1040 | | | | Equival | B& 783. | - | V. 189971 | li . | | | 70744 |
| POCTOR (Pg) | 1900 | 100 | 394 10 | 300 | 120 | 400 | 499 | 100 | 500 | *** | 44 % |
| 10 10 0 00 | | 1 | | | | | | | | | |
| 30 to 3 90 | | | | | 1 | | | | 1 | | |
| 4 5 10 4 50 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | |
| 48 10 446 | | | 1 | | | | 1 | | 1 | | |
| 3 5 10 300 | | | 1 | | 1 | | | 1 | | | |
| 30 10 540 | | | 1 | | | | | | | _ | |
| 11 - 100 | | | | | | 1 | 1 | | _ | | |
| 39 4 140 | | | | | Ī | | | <u> </u> | 1 | | • |
| 88 4 9 40 | | _ | | | | | | _ | _ | | |
| -0 0 ··· 0 00 | | | | | 1 | | | | 1 | | |
| NY 15 | 30.4 | 030.1 | um.s | 475.5 | \Box | | | | | | 1859.5 |

| | | ARMS CONTRACT ASSESSED - C. (MINTER) | | | | | | | | | | | | | | |
|----------------|-----|--------------------------------------|-------|-------|-----|-----|---------------|----|---|----|--------|--|--|--|--|--|
| ADAD PACTOR | L . | | | - | - | | - | n | | | - | | | | | |
| 10/1 | 2= | 2000 | 250 | 1 | 2 | II | 1 | 3 | 3 | 3. | 1 45 | | | | | |
| | | $\overline{}$ | | 1 | | _ | _ | | | | | | | | | |
| 90 m 900 | | | | | 1 | T - | 1 — | 1- | | | 1 | | | | | |
| 4 5 10 4 50 | | | | | | _ | 1 | T | | | | | | | | |
| 40 10 4 40 | | | | | | _ | T | 1 | | | | | | | | |
| 3 5 70 300 | | I | | | | T | 1 | T- | | | | | | | | |
| 30 10 340 | | T | I | | | | 1 | T | _ | | _ | | | | | |
| 15 * 250 | | | | | | | $\overline{}$ | T | | 1 | | | | | | |
| 10 10 149 | Ш | | | | | | | T | | | | | | | | |
| 99 4 .9 49 | | T | I | | | 1 | $\overline{}$ | T | | 1 | | | | | | |
| 9 8 M 8 98 | | T | | | | | I | | | Ī | | | | | | |
| A. 100 | •.3 | 117.9 | 200.2 | 900.3 | 6.9 | | 1 | | | T | 1475.9 | | | | | |

| - | l | | | \$ BUT YOU | | * FED - | V. 199071 | 11 | | | 79741 |
|----------------|-----|----------|---------------|------------|--|--|--|--|---------------|-------------|-------------|
| PACTOR (Og) | 100 | 700 | 196 | 300 | 300 | *** | 190 | 900 | 900 | 900 | 47.5 |
| 80 10 0 00 | | 1 | 7 | | _ | | , - | , | _ | — | _ |
| \$ 0 to 5 00 | | | | 1 | | + | + | + | | | |
| 4 5 to 4 50 | | | t — | | _ | + | + - | + | | | |
| 4 8 10 4 49 | | | | | 1 | + | | | | | |
| 3 5 10 3 50 | | | 1 | | - | + | | + | | | |
| 30 10 349 | | | T | 1 | | + | | _ | | | - |
| 2 5 to 2 50 | | Γ | $\overline{}$ | | _ | $\overline{}$ | | _ | $\overline{}$ | | |
| 1 8 H 1 49 | | | 7 | | _ | + | | | | | |
| 66 19 -8 49 | | | 7 | | _ | | _ | _ | | | |
| 9 9 9 9 9 9 | | | | | 1 | 1 | | _ | _ | - | |
| 71 100 | 3.2 | | 98.9 | 13.0 | | | 1 | | | · | 109.5 |

Table 18

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission IV — Gross Weight Range: 27.000 to 35,000 lb.

| Altifolde: 0 to 1,000 feet | altitudge 2,000 to 3,000 Foot |
|---|--|
| LAND EQUIVALENT AMERICA - 10 (AMERICA) | |
| ### # # # # # # # # # # # # # # # # # | |
| | 10 H 1 9 H 1 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 |
| 1 | 10 to 9 d0 1 1 1 1 3 |
| 18 to 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 0 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| | |
| | 8 9 8 8 3 7 8 3 3 |
| [2 | 93 9-580 95 9-540 95 9-540 |
| 2 to 1 00 7 | 91 4-980 |
| 190,0 800,4 220,7 200,0 805,0 80,3 20,0 0,3 1307.0 | 0.0 M.h 63.0 M.a 65.0 M.a 65.0 16.0 1.5 6.1 M3.0 |
| | |
| A 111 A 11 A 11 A 11 A 11 A 11 A 11 A | |
| Alexander 5,000 to 10,000 foot | A)0000001 30,000 to 35,000 foot Land Doorm.cor address - 1, 100701 |
| 84700 M M M M M M M M M M M M M M M M M M | |
| 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | |
| | 10 0 0 0 |
| 10 to | 45 9 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| 10000 | |
| 11 10 10 1 | \$4 \(\delta \) \(\ |
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Table 19

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission IV — Gross Weight Range: 35,000 to 43,000 lb.

| | | | | | | 20 4 | - 12 | - | \perp | _ | 7 7 | 12 0 | _ | - | _ | 7 | | | | | | | |
|--|---|--|--|--|--|--|--|----------|--|--|--|--|---|-------------|---|--|--|--|--|--------------|--|--------------|--|
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| | | | | | | _ | | والما | 1.0 1.14 | 1,0 27 | 2.5 X46.0 | 165.7 96.5 | 1 0.0 | | | 249 | , | | | | | | |
| | | | | | | - 3,000 | | | | | | | | | 411 | | 5,000 10 | | | | | | |
| LOAD PACTOR (n _L) | | | | | | | . 100078 | | | | TOTAL | 1048 887788 | | | | | | MPEED - | - | 1 | _ | | 70744 |
| (0,) | 100 | 200 | 250 | 300 | 360 | 400 | ** | * | ** | *** | | fag1 | 190 | 280 10 | 280 | 300 | 360 | 409 | 460 | 19 | 890 | 440 | W 4, |
| 6.0 10 6 90 | | 1 | - | - 186 | - | + | - | _ | _ | - | | 60 10 6 90 | _ | - 245 | - | | | 1969 | | | | 869 | |
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| 38 10 349 | | _ | | | • | 1 : | | | | | | 3 5 10 3 00 | _ | | | - | | + | - | | | | - |
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| 00 4 0 40 | | ↓ | - | | | - | | | | <u> </u> | - | 2 0 10 2 40 | | | | | 1 | - | | | | | |
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| A.7 700 | 3.0 | 10.7 | 22.9 | 44.8 | 100.6 | 20.3 | 2.7 | • | | | 863,2 | PLT THAT | 3.8 | | | | 12.0 | 34.3 | 9.9 | | | | 300.3 |
| | 2.0 | 1 30.7 | | | 103.6 | | | 4.7 | | | 1 203,4 | | 3.0 | 11.7 | 25.1 | 196.4 | | ~~~ | | | <u></u> | | 1-23-0-1 |
| | | | | | | 15,600 | | | | | | | | | 449 | ltude: | 15,000 1 | . 20,00 | feet | | | | |
| LOAD PACTOR | L | | | CONTRACT | CAT 44 | | , (disp78) | | | | TOTAL | LOAD PACTOR | i | | | £0mmr | 507 A# | MARCO - | . (44075 | , | | | 1974 |
| 1007 | *** | 200 | 250 | 100 | 380 | 499 | ** | * | 3 | ** | - · | MCTOR ingl | 160 | 200 | 200 | 800 | 390 | 400 | 455 | 100 | 560 | *** | 80 mg |
| 10 10 10 | - | | | - 100 | - | - | - | _ | _ | | \vdash | | _قـ | | - | <u> </u> | <u> </u> | _eii | <u>eñe</u> | 1 | <u> </u> | بعقعب | ₩ |
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| 3 5 10 3 60 | | - | - | ├ | - | + | | | <u> </u> | - | 1 | 4 0 10 4 40 | | | | | | | | | | | |
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| 0.1 Page | | 77.2 | 86.5 | 100.0 | 100.0 | 87.8 | 4.0 | 9.3 | | | 1444 | | _ | _ | - | - | | - | | - | _ | | |
| | 7 3.4 | 1 74 - 4 | , | 107.0 | 1 427.7 | 47.00 | 4.0 | | | Ь | <u> </u> | PLT THE | 1.6 | 50.0 | 105.7 | 109.2 | 44.5 | 15.8 | 1.1 | L | L | Ь | 447.5 |
| | | | | | | . 25,800 | | | | | | | | | - 44 9 | Londo: | 29,000 | to 30,00 | foot . | | | | |
| 1040 | l | | | EBUINEL | ENT AR | - | , (CHOTS | • | | | TOTAL | 1040 | Ī | | | Course | PA 709. | - | v _e 100075 | 19 | | | TOTAL |
| PACTOR | 190 | 200 | 250 | 300 | 390 | *** | 460 | *** | 200 | 3. | 30 | PAETON | 100 | 100 | 200 | 300 | 366 | *00 | 400 | 100 | 100 | 330 | 90.5 |
| | <u> </u> | 170 | <u> </u> | 1.770 | | 100 | حقا | | <u> </u> | | | 10,1 | | | حقا | | ــــــــــــــــــــــــــــــــــــــ | | <u> </u> | حقا | حقا | _ق | |
| 50 % 5 00 | - | | ├ ── | | | - | ├ | | | ├ ─ | + | 80 10 6 90 | | ┞ | ↓ | ļ | ↓ | Ι | ₩. | <u> </u> | | | - |
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| 20 149 | | | | | 1 | | | | | | | 10 10 100 | _ | | | | | | | | | | |
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| 20 149 | | 14.9 | 70.0 | : | 3 | 3,7 | 0,1 | | | | 30 34,6 | 10 10 100 | _ | 23.6 | 66.0 | | | 1.0 | 1.0 | 1.0 | | | 213.4 |
| 11 * 10 | | 10.9 | | 170.2 | 33.7 | 10 35,00 | feet | | | | | 1.5 % 1.50 1.0 % 1.30 0.0 % 0.0 00 0.1 % 0.30 | _ | 23,6 | | 504,4 | 80.3 | | 1.0 | 1.0 | | | |
| 2 0 0 149 2 0 0 149 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 10.9 | | 170.2 | 33.7 | 10 35,00 | | | | | , ne.e | 13 % 130 13 % 130 20 % -0 00 21 % -0 30 A1 Typi | _ | 33.4 | | 504,6 504,6 | 30.3 | <u> w,s</u> | 1.0 | | | | 323.0 |
| 25 % 100 20 % 249 00 % 000 00 | 12.0 | | | 176.2 176.2 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | | | | 15 to 2.00 10 to 100 10 to 2.00 10 to 2 | 0.3 | | | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | | | 323.0 |
| 25 % 200 20 % 240 00 % -040 00 % -040 00 % -040 00 % -040 101 | 13.0 | 10.2 | | 170.2 | 33.7 | 10 35,00 | feet | 3 | 3 | 1 | PAG.4 | 0.5 to 0.50 0.0 to | _ | p., | | 504,6 504,6 | 30.3 | <u> w,s</u> | 1.0 | | | 3. | 323.0 |
| 25 % 100 20 % 249 00 % 000 00 | 13.0 | | | 176.2 176.2 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | 3 | <u> </u> | PAG.4 | 1.5 to 2.50 2.9 to 2.50 2.0 to 2.50 2.0 to 2.50 P.T. Tuple 10-10 10-11 1 | e., | | | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | ¥ | 3. | 323.0 |
| 25 % 200 20 % 200 00 % 200 05 % 200 05 % 200 06 % 200 1931 00 % 200 05 % 200 05 % 200 | 15.0 | | | 176.2 176.2 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | <u> </u> | 3 | PAG.4 | 1.0 to 2.00 1.0 to 2.00 2.0 to 2.00 2.0 to 2.00 2.0 to 2.00 R.Y. Spatt LEAD RETURN (1-y) 6.0 to 0.00 8.0 to 0.00 | *** | | | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | × | 3. | 323.0 |
| 25 % 200 20 % 200 00 % 200 05 % 200 05 % 200 06 % 200 1931 00 % 200 05 % 200 05 % 200 | 15.0 | | | 176.2 176.2 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | | 3 | PAG.4 | 1.0 to 2.00 1.0 to 2.00 2.0 to 2.00 2.0 to 2.00 2.0 to 2.00 R.Y. Spatt LEAD RETURN (1-y-1) 6.0 to 0.00 8.0 to 0.00 | *** | | | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | * | 3. | 323.0 |
| 25 to 250 25 to 250 | 13.0 | | | 176.2 176.2 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | 3 | \$ | PAG.4 | 1.5 % 1.50 1.0 % 1.50 1.0 % 1.0 % 0.0 1.0 % 1.0 % 0.0 1.0 % 1.0 % 1.0 1.0 % 1.0 % 1.0 1.0 % 1.0 % 1.0 1.0 % 1. | *** | | | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | * | 3. | 323.0 |
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| 2 0 0 200 2 0 10 200 2 0 10 200 0 0 10 200 0 0 10 200 1 | 13.0 | | | 170,5 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | 3 | X | PAGE | 1.5 % 1.90 1.0 % 1.90 1.0 % 1.0 % 1.0 % 1. | • | | | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | × | 3. | 365.0 365.0 367.04 367.04 |
| 25 to 250 25 to 100 25 to 100 25 to 100 25 to 100 101 101 101 102 102 103 103 103 103 103 103 103 103 103 103 | 13.0 | | | 2 176,2 276,2 Eturolo Eturolo 300 | 33.7 33.000 | 10 35,00 10'000 · | feet | 444 | 3 | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | Maria. | 1.5 % 1.90 1.0 % 1.90 1.0 % 1.0 % 1.0 % 1. | • | | - 44 100 20 20 100 100 100 100 100 100 100 1 | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | * | 3. | \$13.4 \$17.6 \$0.5 |
| 10 0 0 00 2 0 0 10 00 0 0 0 0 00 0 0 0 0 00 10 0 0 00 10 10 0 00 10 0 0 0 0 0 10 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 13.0 | | 1000 min | 1 170.2 Linear L | 2 22.7 20.000 2017 Ad 300 2017 Ad | 13,00 | 1001 100171 100071 | 444 | 3 | *************************************** | Share | 1.0 to 1.00 1.0 to | • | | - 44 100 20 20 100 100 100 100 100 100 100 1 | SEA . C | 20.3 27.000 | <u> w,s</u> | 1.0 | | * | 3. | \$13.4 \$17.6 \$0.5 |
| 25 to 250 25 to 100 25 to 100 25 to 100 25 to 100 101 101 101 102 102 103 103 103 103 103 103 103 103 103 103 | 13.0 | | 1000 min | 2 176,2 276,2 Eturolo Eturolo 300 | 2 22.7 20.000 2017 Ad 300 2017 Ad | 10 35,00 10'000 · | feet | 444 | 3 | 3 | Maria. | 1.5 % 1.90 1.0 % 1.90 1.0 % 1.0 % 1.0 % 1. | • | | - 44 100 20 20 100 100 100 100 100 100 100 1 | and, d | 20.3 27.000 | | 1.0 | | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | 5. | \$13.4 \$17.6 \$0.5 |
| 10 0 0 00 2 0 0 10 00 0 0 0 0 00 0 0 0 0 00 10 0 0 00 10 10 0 00 10 0 0 0 0 0 10 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 13.0 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 170.5 170.5 101000 100 100 100 100 100 100 100 100 | 23.7 23.7 20.000 207 66 300 30 3 | 13,00 | 1007 1007 100 100 100 100 100 100 100 10 | 444 | 3 | 3 | Share | 1.0 to 1.00 1.0 to | • | | 100 22 22 22 22 22 22 22 22 22 22 22 22 2 | Section 1 | 20.3 27.000 27.000 20.000 | 1.5 | 1 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.0000 0.00 | | * | 5. | 36 3 - 0 36 3 - 0 37 - 0 37 - 0 37 - 0 37 - 0 37 - 0 38 |
| 25 N 100 20 N 100 20 N 200 20 | 13.0 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 170.7 171.00: EQUIVAL 100: 100: 100: 100: 100: 100: 100: 100 | 23.7 23.7 20.000 207 66 300 30 3 | 10 33,00 107000 · | 1007 1007 100 100 100 100 100 100 100 10 | * | 3 | 3. | Starte St | 1.5 to 1.60 2.0 to 1.00 2.0 to | • | | 100 22 22 22 22 22 22 22 22 22 22 22 22 2 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | 3 | Z E | 5. | 903.4 907.64 607.6 ₃ 00.6 ₃ 0.7 7 |
| 23 % 100 20 | 13.0 | 17,0 | A) | 170.7 170.7 15100: 100.0 100 100 100 100 11000: 1000: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | 2 | | Share | LA 10 LES | *** | 2,4 | # 1 TOO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.000 0., 0.0000 0.00 | | | | 203.0 207.0 207.0 200.0 200.1 |
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| 23 % 50 00 00 00 00 00 00 00 00 00 00 00 00 | 13.6 13.6 10.0 10.0 10.0 | 17,0 | A) | 170.7 170.7 15100: 100.0 100 100 100 100 11000: 1000: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | 50 | | yand | 1.0 to 1.00 1.0 to | | 2,4 | # 1 TOO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |
| 23 % 100 20 % 100 20 % 100 20 % 200 PLY TOTAL 100 100 % 100 100 % 100 | 133,0 | 17,0 | A) | 170.7 170.7 15100: 100.0 100 100 100 100 11000: 1000: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | | | yand | LS 10 LS0 CO 10 LS0 | 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 | 2,4 | # 1 TOO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |
| 25 % 20 10 20 20 70 70 70 70 70 70 70 70 70 70 70 70 70 | 9,2 | 17,0 | A) | 170.7 170.7 15100: 100.0 100 100 100 100 11000: 1000: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | | | yand | LS 10 LS0 CO 10 LS0 | 0.1 00 10 10 10 10 10 10 10 10 10 10 10 10 | 2,4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |
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| 25 % 20 % 20 % 20 % 20 % 20 % 20 % 20 % | 93,00 000 000 000 000 000 000 000 000 | 17,0 | A) | 170.7 170.7 15100: 100.0 100 100 100 100 11000: 1000: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | | | yand | LS 10 250 CO 10 10 10 10 10 10 10 10 10 10 10 10 10 | 100 | 2,4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |
| 23 to 100 co 100 | 152.0 | 17,0 | A) | 170.7 170.7 15100: 100.0 100 100 100 100 11000: 1000: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | | | Donate State of the state of th | La to 100 | 0.1 0.2 | 2,4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |
| 23 to 100 | 152.0 | 17,4 | A) 190 190 190 190 190 190 190 190 190 190 | 2 170, 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 22-7 22-1000 dur od 500 23 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | 500 | | Share Starte | 1.5 to 1.00 1.0 t | 0.1 0.2 | 2,4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |
| 23 to 100 co 100 | 152.0 | 17,0 | A) | 170.7 170.7 151.00: 100.00: 100.00: 100.00: 110.00: 110.00: | 23.7 23.7 20,000 207 od 300 20 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 33,00 107000 · | 1001 20, 100070 200 20 20 20 20 20 20 20 20 20 20 20 2 | <u>x</u> | | | Donate State of the state of th | La to 100 | 0.1 0.2 | 2,4 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | State of the state | 20.3 27.009 27.009 207 at | 100 | 1.2 6000 700 200 200 200 200 200 200 200 200 | | | | 203.0 207.0 207.0 200.0 200.1 |

Table 20

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission IV — Gross Weight Range: 43,000 to 51,000 lb.

| MANAGE: 9 to 2,000 feet | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | | | | | | | | |
| | 1.5 to 1.00 cm | | | | | | | |
| 43 14 480 | 13 to 18 | | | | | | | |
| [1 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | 10 9 10 51 11 19 13 10 19 | | | | | | | |
| 13 or 140 | 8.0 to 100 8.0 to 6.0 | | | | | | | |
| | 10 1 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | | |
| | R. 0.6 7.0 89.0 10.3 17.0 1.0 0.1 80.2 | | | | | | | |
| | | | | | | | | |
| • | | | | | | | | |
| Alesteday Julio to 18,000 feet | MANAGEM M. AND CO. 10. (10. CO.) | | | | | | | |
| 1000 | | | | | | | | |
| | 44 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | | |
| 11 = 19 | 14 to 10 i | | | | | | | |
| 1 0 0 100 1 0 0 100 1 0 0 100 1 2 1 100 | (1 h (6) (1 h (6) | | | | | | | |
| \$8 to \$49 | [14 vs 140] | | | | | | | |
| 13 5 19 13 5 19 23 5 3 3 | 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | |
| 25 W-550 | 0.5 10 -0.00 Co.0 C | | | | | | | |
| 0,6 36,1 15,0 36,1 8,1 8,1 | | | | | | | | |
| | | | | | | | | |
| Alkahopper Lighted to Majabl Fred | Williams St. 600 or St. 600 That | | | | | | | |
| | TERRITIES - | | | | | | | |
| | | | | | | | | |
| 60 % 6 00 50 % 7 00 65 % 400 | 10 % 10 0.5 % 48 | | | | | | | |
| 65 to 680 60 to 640 | 10 10 10 | | | | | | | |
| 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 10 10 11 11 11 11 11 11 11 11 11 11 1 | | | | | | | |
| | (3 to 10) (2 to 10) | | | | | | | |
| 10 × 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | |
| 30-15 Ob. (C 10-15) | N 8.0 00,0 99.0 13.0 00.0 | | | | | | | |
| | | | | | | | | |
| all bid bodies - 65-6500 to 35-6500 Front | 44161001 30,000 to 30,000 Past | | | | | | | |
| 1000 TO THE PARTY OF THE PARTY | 1000 00 00 00 00 00 00 00 00 00 00 00 00 | | | | | | | |
| ''' <u> </u> | 16.7 to 0 fb 100 | | | | | | | |
| (1 10 10) | 10 to 100 | | | | | | | |
| 15 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3 9 9 10 | | | | | | | |
| \$9 % \$49 \$9 % \$49 | 20 9 20 | | | | | | | |
| | [3 n 14] [3 n 4] | | | | | | | |
| (1 10 - 3 - 3) | ** *********************************** | | | | | | | |
| 6.5 36.2 60.2 6.0 00.7 | 0.9 50.5 50.6 50.6 97.9 | | | | | | | |
| | | | | | | | | |
| Alliands: 75,000 to 40,000 foot | Alexander - 40,600 to 30,600 foot | | | | | | | |
| LOAD EQUIVALENT AMSPERD - V ₀ (MMSTS) TOTAL | LOAD SQUIMLERY ARRESTS - V ₀ (MISTS) WITH | | | | | | | |
| | | | | | | | | |
| 8 0 to 8 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 50 N 500 | | | | | | | |
| 4 0 to 4 00 | 49 to 49) | | | | | | | |
| 11 10 100 | 3 6 5 3 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | | |
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| (1) (1-()(0) | | | | | | | | |
| P.7 PRE 8.4 38.4 Tag.8 | <u>₹₹</u> | | | | | | | |
| | | | | | | | | |

Table 21

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission V — Gross Weight Range: 27,000 to 35,000 lb.

| - 1 | *** | | | \rightarrow | _ | | -+ | | _ | + | + | + | + | - | | | | | | |
|-------|-------------------|-----------|--|--|--------------|---|----------------|------------------|--------------|-------------|-------------|-------------|--------------|-------------|--|---------------|--|-------------|--|--------------|
| | 4 8 10 | | -+ | | | - | -+ | | ⊢ | +- | + | + | + • | ┥ | | | | | | |
| | | | - | -+ | | _ | - | | | + | + | | | i | | | | | | |
| | 3 5 10 | | | -+ | | . - | . | - | | + | + | + | + | ⊣ . | | | | | | |
| 1 | 30 10 | | | | -5-1 | | : | - ; - | 1 | + | + | + | 35 | - | | | | | | |
| , , | 23 % | | + | - | * 1 | | - 1 | + | 1 | + | + | + | 49 | ⊣ | | | | | | |
| | 8 0 10 | | _ | 1 | ** | 25 | 5 | • | 3 | | _ | 1 | 111 | ╛ | | | | | | |
| | 00 10 | | | | | | | | | | | T | | _ | | | | | | |
| | -0 8 10 | | | \Box | | | | | | Ι | L | 1 | | | | | | | | |
| | P. 7 TH | | | 7.7 | 97.3 3 | 20.1 227 | | 59.7 | 19.0 | 1.7 | 1 | T | 1683. | Π. | | | | | | |
| , | | | 4.3 1.5 | 7.7 1.5 | | 1 22 | | | | | | - | 1 55551 | | | | | | | |
| | . 5,000. | foot | | | | | | | | | | 410 | i same : | 5.000 6 | 10,000 | feet | | | | |
| | 97E40 · 1 | | | | | $\overline{}$ | 1 | | | | | | COUNT | | | v, (88075 | | | | |
| | 466 | 444 | | 1 600 | 1 444 | 374 | } | 1 | 948 [788 | <u> </u> | | | | | | | | *** | T -44 | 79744 |
| * | 3 | I | ** | 100 | 3. | 1 | ١ | | 4,1 | ** | *** | 19 | 300 | 350 | 400 | *** | 100 | 990 | | m . |
| _ | _ | _ | _ | | - | + | 4 | _ | | - | | | | _ | 1000 | | | _ | | |
| | | ├ | —- | | + | - | 1 | | 1 90 | | ├ | - | ├ | | | | | | - | |
| | | | | | + | | t | | | | _ | | | | | | | | | |
| | | _ | | 1 | _ | | 1 | | | | | | | | | | | | - | 1 |
| | | | | 1 | 1 | 1 | 1 | | 3 100 | _ | _ | | | | - | - | - | | | + |
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| | | - | | Ι | | 14 |] | | - 100 | | | | 1 | | | | | | | |
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| 17.5 | 34.6 | 8.8 | | <u> </u> | 1 | 395.5 | j | | į | 0.5 | 30.2 | 27.5 | 89.1 | 23.7 | 7.6 | 6.4 | 1 | 1 | 1 | 195.0 |
| | | | | | | | - | | | | | | | | | | | | | |
| | . 13,000 | | | | | | 1 | | | | | 414 | | | . 30,000 | | | | | |
| FT AM | 9 7003 • ¥ | . (80078) | • | | | 79744 | ŀ | 1 10 | us i | | | | EBWWAL | NA 743 | 99220 - 1 | | 1 | | | 10744 |
| *** | 100 | 490 | * | 100 | 1 60 | | 1 | 700 | 100 | 190 | 100 | 190 | | 390 | 400 | 490 | 900 | 980 | 400 | - |
| | *** | - | <u> </u> | <u>_</u> | 34 | i | 1 | L." | ••• | - | 200 | - | 300 | - | 465 | | 1 | | 443 | |
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| | - 13,000 | foot | | | | | | | - | | | | A COMP : | 25.ess 4 | . 30,000 | feet | | | | |
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| 29.6 | 0.5 | L | I | 1 | | 394.0 | j | A | | | 39.3 | 150,0 | 184.0 | 1.1 | 0.4 | | | | | 20.0 |
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| 4.8 to 4.80 | | | | | | \mathbf{L} | | | | Ц | | | | |
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| 41.7 | I | i man | lana. | 10.0 | 0.1 | 1 | 1 | l | 1 | 1 | 46.9 | | | |
| | TRUM | | | | | | | | | | | | | |
| 1,000 | | | | - | -7 4 | | V ₀ 100011 | | | | TOTAL | | | |
| 1000 101 | ** | 1 | | - | -7 4 | | V ₀ 100011 | | 3 | 3 | WIN. | | | |
| 10 ₃ 1 | ï | <u> </u> | | - | -7 4 | | V ₀ 100011 | | 3 | 3 | STAL STAL | | | |
| 10 ₂ 1 6.0 to 6 50 10 to 5 50 | ** | <u> </u> | | - | -7 4 | | V ₀ 100011 | | 3 | 3 | #*** | | | |
| 10,1 | • | <u> </u> | | - | -7 4 | | V ₀ 100011 | | * | 3 | 197AL | | | |
| 10 ₁ 1 | ** | 5 | | - | -7 4 | | V ₀ 100011 | | : | Ī. | 27°4 | | | |
| 10 ₁ 1 6.8 to 6 to 10 to 5 to 10 to 5 to 10 to 100 | * | 3 | | - | -7 4 | | V ₀ 100011 | | * | <u>:</u> | TOTAL of s | | | |
| 10g1 14 % 6 W 10 % 1 W 11 % 1 W 10 % 1 W 10 % 1 W 10 % 1 W | 1 | 5 | | - | -7 4 | | V ₀ 100011 | | 3 | 3 | TOTAL OF S | | | |
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| 71-7- | | | | | | | 0 Feet | | | | 39.4 |
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| 75 - 4.00 | | | 1 | 1 | 1 | | 1 | | | | 1 |
| 1 | | | 3.0 | | | Ι | Τ | 1 | | | 3,6 |

Table 22

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission V — Gross Weight Range: 35.000 to 43,000 lb.

| MANAGE TOP | 41419941 - 0 10 1/400 (HATS | | | | | | | | | | | |
|------------------------------|---------------------------------|------------|---|-------|-------|-----|------|---|---|---|----------|--|
| naction (a ₀) | 1 | T | 발 | I | 1 | 1 | 1 | 3 | 3 | 1 | | |
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| 4 5 to 4.85 | | | | | | | | | | | | |
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| 1 1 10 100 | | | | | | 1 | | | | | | |
| 8 0 to 340 | | | | | | 1 | | | | | 12 | |
| 1.5 % 3.50 | | Γ | | | | 1 | | | | | _ | |
| 19 10 14 | | $\Gamma =$ | 1 | | | 1.2 | | | | | <u> </u> | |
| 8.6 10 - 6.48 | | | | | | | | | | | | |
| 89 · · · 6.80 | | | | | | | | L | | | <u> </u> | |
| AT THE | 60,6 | 9.4 | - | 260.1 | 637.0 | 100 | 39.1 | | 1 | | 2004.2 | |

| /849 | | | | - | per an | # 250 - 4 | , jump? | <u> </u> | | | 19744 |
|----------------------------|----|---------|-------|-------|--------|------------------|---------|----------|---|-----|-------|
| RETOR (a _p) | * | 1 | 190 | 300 | ** | 490 | 1 | 3 | * | 1-1 | |
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| | | T_{-} | | | L | <u> </u> | | | - | | + |
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| A1 788 | 7- | 6.8 | 105.0 | 304.7 | 129.4 | 14.1 | 3.8 | 1 0.3 | 1 | 1 | 607.9 |

| LOAD PACTOR | Equivalent America - 1 ₀ (mayre) | | | | | | | | | | | |
|----------------|---|--------------|--------|--------|------|------------------|-----|----------|---|----|-------|--|
| (Ag) | ** | | 300 | | 3 | 13 | I | 13 | = | 3. | 3. | |
| 44 4 6 80 | | T | | | | | | | | | | |
| 5.0 W 5 W | | | \Box | | | | | Ι | | | | |
| 49 10 4 10 | | | | \Box | | | | Γ | Ι | | Т. | |
| 40 . 44 | | | | | | | | | | | | |
| 3 9 10 100 | | | | | | | | Γ | | | | |
| 90 H 140 | | | | L | | \mathbf{L} | | | | | | |
| 20 4 540 | | \mathbf{L} | I | | | \mathbf{L}^{-} | | Ι | | | 1 | |
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| | | T | | | | _ | | | | | | |
| | | L | | | | L | | I | | | | |
| AT THE | | 7.5 | 44.5 | 386.3 | 67.8 | 10.1 | 0.4 | T | | | 295.2 | |

| | | | 41 | 111 00 01 | 10,000 1 | a 15,000 | 7001 | | | | |
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| SECTOR (*) | = | 1 | 100 | 3 | * | *** | - | 3 | - | 3 | |
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| | | T | | | | 1_3_ | | <u> </u> | | _ | - 11 |
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| 41 4-10 | | | $\Gamma =$ | L | | | | | L | | 1 |
| 41.75 | | 7,0 | 39.9 | 144,8 | 74.1 | 10.2 | 2,0 | | Ц. | | 270.3 |

| | | | | të terio: | 17,000 | - 20,00 | - | | | | | | | |
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| LAGO PACTOD | ļ | CONTRACT APPEND - V, IGNOTES | | | | | | | | | | | | |
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| 60 4 6 8 | | | 1 | $\overline{}$ | | | | | | | | | | |
| 54 9 50 | | | | | | | | | | | E | | | |
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| 40 9 440 | | | | | | | | | | | | | | |
| 35 4 10 | | \mathbf{I} | - | 1 | | L | | | | | | | | |
| 3.0 to 1.00 | | | 1. | | $\overline{}$ | | | | | | | | | |
| 2.5 TO 2.85 | | | | | | | | $\overline{}$ | | | 1 | | | |
| 10 9 10 | | | | 1 | <u> </u> | | | | | | | | | |
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Table 23

Distribution of Maneuver Load Factors by Equivalent Airspeed and Altitude — Mission V — Gross Weight Range: 43,000 to 51,000 lb.

| 1.048 | SQUANGLEST ASSESSED - Y _Q (MMSTS) | | | | | | | | | | | | |
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| 2 0 10 240 | | I | | 1 | • | | 8 | | | | 1.7 | | |
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| PLY YER | 3.0 | 29.3 | 116.1 | 169.4 | 176.4 | 98.2 | 25.2 | | | | 682.6 | | |

| LOAS | ł | | | COUVAL | [WT AM | wees - v | , (EMBTS | • | | | 70741 |
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| 48 10 6 99 | | | | | | | | | | | |
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| 3 5 10 3 80 | | 1 | | | | | | | L | | |
| 30 10 100 | | 1 | I | 1 | | | | | | Ι | |
| 25 4 200 | | 1 | T | 1 | | | | | | | 1.2 |
| 20 4 140 | | 1 | | Ι | 1 | 1 | | Ц | | | Li |
| 8 6 10 -0 40 | $\overline{}$ | T | 1 | T | 1 | 1 | | Ι | | | T |
| -0 5 10 -0 00 | | 1 | | | Ι | | | | | | l |
| PLT THE | 1 | | 44.4 | 114.6 | 63.0 | 10.2 | 0.0 | T | | 1 | 200.2 |

| | | | 44 | ***** | 5,000 6 | 4 10,000 | feet | | | | |
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| PACTOR (ng) | 1940 | 100 | 200 | 300 | 310 | *** | 454 | 100 10 10 | 540 100 | 999 | W 4 |
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| LEGG | LOAD EQUIVALENT AREPESD - V _Q (10075) | | | | | | | | | TOTAL | |
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